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OM protein - protein search, using sw model

Run on: November 17, 2004, 17:15:52 ; Search time 23.7882 Seconds
(without alignments)
1223.869 Million cell updates/sec

Title: US-09-319-724B-1
Perfect score: 2347
Sequence: 1 MYIDDLPIWGIVEADENGE.....FYFGYMAVFTALGIMCGAI 439

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2347	100.0	579	4	US-09-786-681A-4
2	2347	100.0	582	4	US-09-786-681A-2
3	1107	47.2	257	4	US-09-270-767-32308
4	842.5	35.9	625	3	US-08-959-004-10
5	746.5	31.8	663	3	US-08-959-004-5
6	603	25.7	667	3	US-08-959-004-11
7	546	23.3	133	4	US-09-270-767-44213
8	546	23.3	133	4	US-09-270-767-59636
9	419	17.9	241	4	US-09-248-796A-20311
10	364	15.5	87	4	US-09-513-999C-7785
11	159	6.8	218	4	US-09-270-767-46281
12	135	5.8	111	4	US-09-513-999C-7579
13	127	5.4	605	4	US-09-583-110-4773
14	120.5	5.1	513	4	US-09-543-681A-8279
15	118.5	5.0	496	3	US-09-134-001C-3703
16	115	4.9	502	4	US-09-328-352-6968
17	109	4.6	468	4	US-09-710-279-868
18	109	4.6	468	4	US-09-710-279-1618
19	107.5	4.6	408	2	US-08-742-440A-6
20	107	4.6	353	4	US-09-576-160B-6
21	106	4.5	237	3	US-09-134-001C-3057
22	105	4.5	504	4	US-09-489-039A-8489
23	104	4.4	511	4	US-09-107-532A-6112
24	103	4.4	822	4	US-09-824-734-3
25	102.5	4.4	402	4	US-09-270-767-35644
26	102.5	4.4	402	4	US-09-270-767-50861
27	101.5	4.3	2938	5	PCT-US94-00198-3

ALIGNMENTS

RESULT 1
US-09-786-681A-4
; Sequence 4, Application US/097866681A
; Patent No. 6632926
; GENERAL INFORMATION:
; APPLICANT: HIDAKA, Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING LI
; FILE REFERENCE: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786, 681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 579
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-786-681A-4

Query Match 100.0%; Score 2347; DB 4; Length 579;
Best Local Similarity 100.0%; Pred. No. 4.6e-225;
Matches 439; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MYIDDLPIWGIVEADENGEYLLWTKLEITGNGNRIVDNLTSEGVKLVPTKIQM	60
DB	122	MYIDDLPIWGIVEADENGEYLLWTKLEITGNGNRIVDNLTSEGVKLVPTKIQM	181
QY	61	SYSVKWKSDVKFEDRFDKYLDPSPFQHRHWFISFNSFMVIFLVGLVSMILMRLKD	120
DB	182	SYSVKWKSDVKFEDRFDKYLDPSPFQHRHWFISFNSFMVIFLVGLVSMILMRLKD	241
QY	121	YARYKEEEMDMDDLDGEYKWKGVDFRPPSHPLIFSLGSGGQIFAVSLIVIV	180
DB	242	YARYKEEEMDMDDLDGEYKWKGVDFRPPSHPLIFSLGSGGQIFAVSLIVIV	301
QY	181	AMIEDLYTERGSMLETAIPVYAATSPVNGYFGSLYARQGGRRWIKOMFIGAFILPAMVC	240
DB	302	AMIEDLYTERGSMLETAIPVYAATSPVNGYFGSLYARQGGRRWIKOMFIGAFILPAMVC	361
QY	241	GTAFITNFIATYYHASRAIPFGTMVAVCCIFFVLPLNLVGTILGRNLSQGNPPCARV	300
DB	362	GTAFITNFIATYYHASRAIPFGTMVAVCCIFFVLPLNLVGTILGRNLSQGNPPCARV	421
QY	301	AVPRITPEKKWMEPAVIVCLGGILPFGSIFTEMVFITTSFWAYKIYYVYGFPMVLVLIL	360
DB	422	AVPRITPEKKWMEPAVIVCLGGILPFGSIFTEMVFITTSFWAYKIYYVYGFPMVLVLIL	481
QY	361	CIVTVCIVTIVCTYFLLNAEDYRWQTSFLSAASTAIYVYMFYSFYFFKTKMYGLFQTSF	420
DB	482	CIVTVCIVTIVCTYFLLNAEDYRWQTSFLSAASTAIYVYMFYSFYFFKTKMYGLFQTSF	541


```
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 625 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1665777
; US-08-959-004-10

Query Match      35.9%; Score 842.5; DB 3; Length 625;
Best Local Similarity 39.9%; Pred. No. 3.3e-75;
Matches 175; Conservative 83; Mismatches 158; Indels 23; Gaps 6;

QY 17 ENGDEYYLWYK--KLEIGFNGNRIVDVNLTSEKVKLVPT-----KIQMS 61
DB 175 EDMEDEQHYRVRVPEVIPS-RLEDLKADKSSCTLPEGTNSSPQEDPTKENQLYFT 234
QY 62 YSVKWKSDVKFEDRDKYLDPSFFQHRHWFHIFNSFMVMVFLVGLVSMILMRLTKDY 121
DB 235 YSVHWESDIKWSRMDTYLTNSDVQ--IHWFSIINSVVVFFLSGILSMIIRTLRKDI 292
QY 122 ARYSKEEMDDRDLDGEYGVKQVHGDVPRPSSHPLIFSSLGSCQIFAVSLIIVIVA 181
DB 293 ANYNKEDDIE---DTWEESGWLKHGCVPRPQYPWILSSLLSGGIQFCMLIIVIVA 348
QY 182 MIEDLY-TERGSMNSTAIFVAATSPVNGYFGSLYARQGRWIKQMTIGAPLIAMVC 240
DB 349 MGLMSPSSRGALMTTACFLFMFNGVFGFSAGRLYRTLKGRHWKGAFTATLYPGVVF 408
QY 241 GTAFFINFIAIYHASRAIPGTMVAVCCICFFVILPLNLVGTILGNLSGQNPFCRVN 300
DB 409 GICFVLNCTYKGHSSGAVFTPTWALLCMWFGISLPLVLYGYFFGRKQPDN-PVRTN 467
QY 301 AVPRPIPEKKWFMEPAVIVCLGILPFGSFIEMFYFTSFYAYKIYYVYGFMMVLVIL 360
DB 468 QIPRQIEQWYMRNFVIGILMAGILPFGAMFIELFIFSAIWENQFYLFGLFLVFIIL 527
QY 361 CIVTVCTVICTVFLNADRYKOWTSFLSAASTAIYVYVYVYFFTKMYGLQTSF 420
DB 528 VVSCQSISIVNVVQLCAEDYRWNRNPLVSGSFAFYLVIAIFYFNKLDIVFEIPSL 587
QY 421 YFGYMAVFTALGIMCGAI 439
DB 588 YFGYALMWLSFWLLTGTI 606

RESULT 5
US-08-959-004-5
; Sequence 5, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; TITLE OF INVENTION: PROTEINS
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
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; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 663 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: ADREUT06
; CLONE: 2822412
; US-08-959-004-5

Query Match      31.8%; Score 746.5; DB 3; Length 663;
Best Local Similarity 34.2%; Pred. No. 1.3e-65;
Matches 155; Conservative 93; Mismatches 160; Indels 45; Gaps 9;

QY 20 EBYLWT-----YKLEIGFNGNRIV-----DYNLTSEG 48
DB 204 DTFYIFNHVDIKIYHYVETGSMGARLVAALKPKSPKHTHDKPDCSGPPMDISNKASG 263
QY 49 KVKLVNTKIQMSYVKKWKS-DVKEDRFDKYLDPSFFQHRHWFHIFNSFMVMVFLVG 107
DB 264 EI-----KIATYVSVEEDDKIRWASRWYDILESMPHTH-IQWFSIMNSLVIVLPSG 316
QY 108 LVSMILMTLTKDVARYSKEEEMDDMDRLDGEYGVKQVHGDVPRPSSHPLIFSSLSG 167
DB 317 MYAMIMLTTLTKDITARYN---QMDSTE-DAQEEFGWKLHVHGDIFRPPKGMLLSVFLSG 372
QY 168 CQIFAVSLIIVIAMIEDLY-TERGSMNSTAIFVAATSPVNGYFGSLYARQGRWIK 226
DB 373 TQILIMTFVTLFFACLGFLSPANRGALMTCAVWLWVILGTGPAVVAARFYKSPGGEKWT 432
QY 227 QMFICAFILIPAMVCGTAFINFIAYIYHASRAIPGTMVAVCCICFFVILPLNLVGTILG 286
DB 433 NVLLTSFLCPGIVFADFFIMNLILWEGSSAAIPGTLVALALWFCISVPLTIGAYFG 492
QY 287 RNLGQNPFCRVNAPRPIPEKKWFMEPAVIVCLGILPFGSFIEMFYFTSFYAYKI 346
DB 493 FKKNAIEH-PVRTNQIPRQIEQSFYTKPLPGIIMGILPFGCIFQLFFILNSIWSHQ 551
QY 347 YVYGFMMVLVILCIVTVCTVICTVFLNADRYKOWTSFLSAASTAIYVYVYVY 406
DB 552 YVMFGFLVFLVITCSEATILLCYFHLCAEDYHWQWRSFLTSGFTAVFYLLIYAVHYF 611
QY 407 PEKTKMYGLFOTSPFYGYMAVFTALGIMCGAI 439
DB 612 FSKLQITGTASTILYFGYTMIMVLIFLTGTI 644

RESULT 6
US-08-959-004-11
; Sequence 11, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
```



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; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 20311
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-20311

Query Match 17.9%; Score 419; DB 4; Length 241;
Best Local Similarity 36.4%; Pred. No. 1.4e-33;
Matches 82; Conservative 46; Mismatches 85; Indels 12; Gaps 4;

QY 220 GGRWIKQMFAGFAPAMVCGTAFNFIAIYYHASRAIPFGTMVAVCCICFFVILPLN 279
DB 5 GGDWKNLNFPLVLPVGLSLVFLVFNFLISVQSSGAHGMFMFAVLVWFIISPLS 64
QY 280 LVGTILGRNLSCQP--NPFRCVNAVPRIPKMKMPEAVIVCLGGILPFGSFIEMFYI 337
DB 65 VIGSILASN---RPLSVFVRNQIPQTPWYLSIPYMFISGIFPFPGSAVENMYFI 121
QY 338 FTSEWAYKIYVVYVGMMLVLVLCVTIVCTYFLLNAEDYRWQWTSFLSAASAIY 397
DB 122 YSISWFKIYFVGFELFFCFILMITLSLITLMIYYTLCSENYKWKSLFVGGGCAIY 181
QY 398 VYMYSFYYFFPKT---KMYGLFQTSFYGYNAVFSTALGIMCGAI 439
DB 182 VFTHS----FFLTGGBKFGFSSLVLYSGYSAVISLLVFLCCGSI 222

RESULT 10
US-09-513-999C-7785
; Sequence 7785, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 7785
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: UNSURE
; LOCATION: 2
; OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 55
; OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 73
; OTHER INFORMATION: Xaa=Ala or Asp
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 74
; OTHER INFORMATION: Xaa=Lys or Thr
; US-09-513-999C-7785

; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 20311
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-20311

Query Match 15.5%; Score 364; DB 4; Length 87;
Best Local Similarity 91.1%; Pred. No. 1.1e-28;
Matches 72; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 133 MDRDLGDEYGMKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLVLIIVAMIEDLYTERGS 192
DB 3 MDRDLGDEYGMKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLVLIIVAMIEKLYTERGS 62
QY 193 MLSTAIIFYAATSPWNGYF 211
DB 63 MLSTAIIFYAXXSPSEWLF 81

RESULT 11
US-09-270-767-46281
; Sequence 46281, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 46281
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-46281

Query Match 6.8%; Score 159; DB 4; Length 218;
Best Local Similarity 62.2%; Pred. No. 9.3e-08;
Matches 28; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

QY 1 MYIDDLPIWGIVGEADENGEDYVLYWYKKLEIGFNGNRVVDNLT 45
DB 174 MYIDGLPIWGKVGDERDQKYYIFTHKFDIGYNGQIVDITLT 218

RESULT 12
US-09-513-999C-7579
; Sequence 7579, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 7579
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-513-999C-7579

Query Match 5.8%; Score 135; DB 4; Length 111;
Best Local Similarity 100.0%; Pred. No. 9.3e-06;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYIDDLPIWGIVGEADENGEDYVLY 24
DB 88 MYIDDLPIWGIVGEADENGEDYVLY 111

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RESULT 13
US-09-583-110-4773
; Sequence 4773, Application US/09583110
; Patent No. 669703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al.
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; FILE REFERENCE: PATH00-07A
; CURRENT APPLICATION NUMBER: US/09/583.110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 4773
; LENGTH: 605
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-583-110-4773

Query Match 5.4%; Score 127; DB 4; Length 605;
Best Local Similarity 19.8%; Pred. No. 0.00056;
Matches 73; Conservative 60; Mismatches 117; Indels 118; Gaps 17;

QY 85 FFOHRIHWFISFNFMVIFLVGLVSMILMRLKDYARYSKBEEMDDMDRLDGDYGV-- 142
DB 64 FFRRR-----FYRIVPPVLMVLVTPFTFLVRQDYV-----AGIGGQIASV 105
QY 143 -----WKQVGDVFRPSSHPLIFSSLGSCQIFAVSLI-----VIIVAMIEDLYTERGSM 195
DB 106 LGFTNPFYELLTGGSYESQPHFLFVHNWLAVEVHYIILGLAVWFL-STHAKSNGQLK 164
QY 196 TAFVYATSPVNGVFGSGLYARQGRRWIKQMFIGAFLIPAMVCGTAFFINFIAYYHA 255
DB 165 GMVFLLSAVALLSFF-----SMFSGFLVTSY--SSVYESSLTHYV--- 204
QY 256 SRAIPIF--GTWAVVCCICFFVILPLNLVG-----TILGRNLSGQPNFPCRVNAVPRPIPEK 309
DB 205 -----PFLGLSMLA-----TIVGVRQTTSLVKQL-----DK 230
QY 310 KWMEPAVIVCLGILPGSFIEMFYI-FTSFWAYKIYVYVGMVLVILGIVTVCVT 368
DB 231 IWDURKILVFGGG---FGVLVLTFVFKTYLFPAYLI-----GFLASLAALAVILAA-- 281
QY 369 IVCTYFLNADYRWQ---WTSFLSAASTAIYVMYSFYFFFKTK-----MY 413
DB 282 -----RVLHEKTHIQBPKIISFLADTSYAVLPHWPFYIIFSOILSNLLAVLLTICSY 336
QY 414 GLPQTSFY 421
DB 337 GFASLSFY 344

RESULT 14
US-09-543-681A-8279
; Sequence 8279, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543.681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 8279
; LENGTH: 513

; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-8279
Query Match 5.1%; Score 120.5; DB 4; Length 513;
Best Local Similarity 20.6%; Pred. No. 0.003;
Matches 85; Conservative 65; Mismatches 135; Indels 127; Gaps 20;
QY 55 NTKIQMSYSVKWK-----SDVKFED--RFDKYLDPSPFFQHRHWFISFNFMVIF 104
DB 5 NTLIERSLNMKLLKKENKELRINDITIIDSKLKAITAAALGNAMWFD-FGVYGLAY 63
QY 105 LVGL-----VSMI-----LMRLKDYARYSKBEEMDDMDRLDGDYGV 145
DB 64 VLGVFFFGASPGVQMIAALATFSVPFLVRPLG-----GVVFGMLGDKFGKQK 111
QY 146 VHGDVFRPSSHPLIFSSLGSCQIFAVSLI-----VIIVAMIEDLYTERGSM 193
DB 112 V-----LSVTIIMALSTFAIGLIPGVDYTIWIAPVILLILAKAGSGIGGEY 159
QY 194 LSTAIFFVAATSP--VNGVFGSGLYARQGRRWIKQMFIGAFLIPAMVCGTAFFINFI-- 249
DB 160 SGAAIFV-AEYSPDRKRGFMGS-----WLDFGSIAGFVMGA---GVVVLITIMG 205
QY 250 -AIYVHASRAIPFGTMVAVCCICFFVILPLNLVGTLGRNLSGQPNF----- 295
DB 206 EAAFHENGWRIP-----PFLALPLGLIGLYLHRALEETPAFOQHVDENMSDDRK 254
QY 296 ----PCRVNAVPRPIPEKKWFMPEPAVIVCLGILPGSFIEMFYFTSFWAYKIYV-- 349
DB 255 STENPRVSL--REIASKYV--KSLTVCGVLVIATNVYVYMLLTYPMSYLSHLNLSAD 309
QY 350 YGFMMVLVILCIVTVCTVITVTFLLNAEDYRWQWTSFLSAASTAIYVYV 401
DB 310 HG-----VLIIITAIMGLFVQFVIGLLSDKIGR---KPFVIGSGVGLFILAY 354
RESULT 15
US-09-134-001C-3703
; Sequence 3703, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134.001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3703
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3703
Query Match 5.0%; Score 118.5; DB 3; Length 496;
Best Local Similarity 20.0%; Pred. No. 0.003;
Matches 81; Conservative 68; Mismatches 156; Indels 99; Gaps 18;
QY 90 IHWFSIFNSF--MMVIFLVGLVSMILMRLKDYARYS---KEEMDDMDRLDGDYGV 144
DB 7 MNYLKQYESFFWGLIGIFIFYLIMAILTPLSTTDHAYKNLSQVLTQENGSLCHLEFW 66
QY 145 QVHGDVFRPSSHPLIFSSLGSCQIFAVS--LVIIVAMIEDLYTERGSMSTAIYVYA 202
DB 67 AVHNIIIR-----ALIVAITSLFYLYVAVVQLHTNRFILS--FVLM 109
QY 203 ATSPVNGVFGSGLYARQGRRWIKQMFIGAFLIPAMVCGTAFFINFIAYYHASRAIPF 261

Db	110	VTVP-----NTIYSETVG--W-----FTGPFSPYPAIV--LSLFIETVTVKMIESHD---152
Qy	262	GTMAVACCICFFVILPLNLVGTILGRNLSGQNPFCRVNAVPRPIPEK---WFMEPAVI318
Db	153	----TVSEQLWVFLVLSLFGQFLENLSIANSLLILIGWVYFVVKRLSYFLVIGFML208
Qy	319	VCLGGILPGSGFIEWYPIF-----TSFWAYKIYVYVGM--MLVL357
Db	209	SCIGNIINLPF---NYFLIKDGLNTHYSIDSHGMTHKAGVTLFKLVEYFPIFQMIIL265
Qy	358	VILCIYTV-----CVTI-VCTYFLLNABDYRWQWTSFSLAA--392
Db	266	TVISIVSVLLAKQNSLXHMRYIKIPLLGLIITLPYKIFVYNQHFELYKASFIAVL325
Qy	393	-STAIYVMYSYFYFFTKYGLFQTSFYFGYNVAFSTALGIM435
Db	326	NTTICFPIYMSIVYVVFVKMIQQRVIRMTVMGSGFIAMASSVLPLL369

Search completed: November 17, 2004, 17:31:55
Job time : 25.7882 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 18, 2004, 22:11:36 ; Search time 117.884 Seconds
(without alignments)
7940.984 Million cell updates/sec

Title: US-09-319-724B-2
Perfect score: 1317
Sequence: 1 atgacatagatgattacc.....ggataatgtgtggagcgatt 1317

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 35539441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/ptodata/1/ina/5A COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PTUS COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1317	100.0	1827	4	US-09-786-681A-3
2	1317	100.0	2072	4	US-09-786-681A-1
3	444	33.7	444	4	US-09-621-976-18929
4	383.4	29.1	440	4	US-09-513-599C-3708
5	369.8	28.1	771	4	US-09-270-767-679
6	369.8	28.1	771	4	US-09-270-767-15961
7	209	15.9	2805	3	US-08-959-004-6
8	193	14.7	571	4	US-09-270-767-28434
9	193	14.7	1151	4	US-09-270-767-12633
10	114.6	8.7	726	4	US-09-248-796A-6208
11	100	7.6	262	4	US-09-313-294A-2292
12	91.6	7.0	769	3	US-09-385-982-530
13	73	5.5	433	4	US-09-513-599C-3502
14	64.6	4.9	302	4	US-09-702-705-1002
15	64.6	4.9	302	4	US-09-736-457-1002
16	64.6	4.9	302	4	US-09-614-124B-1002
17	64.6	4.9	302	4	US-09-671-325-1002
18	64.6	4.9	302	4	US-09-658-824-1002
19	56.4	4.3	279	4	US-09-313-294A-4533
20	51.8	3.9	7218	1	US-08-232-463-14
21	51.2	3.9	995	4	US-09-270-767-14715
22	47.8	3.6	299	4	US-09-313-294A-772
23	45.6	3.5	519	1	US-08-686-878A-20
24	45.6	3.5	519	3	US-08-175-928-20
25	44.6	3.4	99500	3	US-09-798-096-10
26	44.4	3.4	1141	4	US-09-806-708B-22
27	43	3.3	268	4	US-09-313-294A-909

C 28	42.4	3.2	453	4	US-09-270-767-9089	Sequence 9089, Ap
C 29	42.4	3.2	453	4	US-09-270-767-24371	Sequence 24371, A
C 30	42.2	3.2	1141	4	US-09-806-708B-22	Sequence 22, Appl
31	42	3.2	640681	4	US-09-790-988-1	Sequence 1, Appl
32	40.8	3.1	274	4	US-09-313-294A-3811	Sequence 3811, Ap
C 33	40.8	3.1	7218	1	US-08-232-463-14	Sequence 14, Appl
C 34	38.8	2.9	26664	3	US-09-564-805-28	Sequence 28, Appl
C 35	38.6	2.9	1001	4	US-09-641-638-103	Sequence 103, App
36	38.6	2.9	1001	4	US-10-170-097-103	Sequence 103, App
37	38.6	2.9	1847	3	US-08-930-894-3	Sequence 3, Appl
38	38.6	2.9	2469	4	US-09-248-796A-4746	Sequence 4746, Ap
C 39	38.4	2.9	399	4	US-09-621-976-8976	Sequence 8976, Ap
C 40	38.4	2.9	640681	4	US-09-790-988-1	Sequence 1, Appl
C 41	38.2	2.9	256	4	US-09-313-294A-2536	Sequence 2536, Ap
C 42	37.8	2.9	8133	1	US-08-480-604A-5	Sequence 5, Appl
C 43	37.8	2.9	8133	2	US-08-405-496A-5	Sequence 5, Appl
C 44	37.8	2.9	8133	3	US-08-915-136-5	Sequence 5, Appl
C 45	37.8	2.9	8133	3	US-08-957-310-5	Sequence 5, Appl

ALIGNMENTS

RESULT 1
US-09-786-681A-3
; Sequence 3, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
; APPLICANT: HIDAKA, Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING LJ
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786,681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 1827
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(1747)
US-09-786-681A-3

Query Match 100.0%; Score 1317; DB 4; Length 1827;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	ATGTACATAGATGATTTTACCAATATGGGTATTGTTGGTGAGGCTGATGAAATCGAGAA	60
Db	374	ATGTACATAGATGATTTTACCAATATGGGTATTGTTGGTGAGGCTGATGAAATCGAGAA	433
QY	61	GATTACTATCTTTTGACCTATAAAAAAATTGAAATAGTGTATGGAATCGAATTTGTT	120
Db	434	GATTACTATCTTTTGACCTATAAAAAAATTGAAATAGTGTATGGAATCGAATTTGTT	493
QY	121	GATGTTAATCTAATAGTAGTGAAGGTAAGCTGTTTCCAAATCTAAATCCAGATG	180
Db	494	GATGTTAATCTAATAGTAGTGAAGGTAAGCTGTTTCCAAATCTAATATCCAGATG	553
QY	181	TCATATTCAGTAAAAATGGAATAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT	240
Db	554	TCATATTCAGTAAAAATGGAATAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT	613
QY	241	CTTGATCCGTCCTTTTTCACATCGGATTCATTTGGTTTTCATTTTCAACTCCCTTCATG	300
Db	614	CTTGATCCGTCCTTTTTCACATCGGATTCATTTGGTTTTCATTTTCAACTCCCTTCATG	673
QY	301	ATGGTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATCAGAACATTTAAGAAAAAGAT	360
Db	674	ATGGTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATCAGAACATTTAAGAAAAAGAT	733

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QY 361 TATGCTCGTACAGTAAAGAGGAGAAATGGATGATATGGATAGACACCTAGGAGTAA 420
Db 734 TATGCTCGTACAGTAAAGAGGAGAAATGGATGATATGGATAGACACCTAGGAGTAA 793
QY 421 TATGATGAAACAGGTCATGGAGATGATATTTAGACCATCAAGTCAACCACTGATATTT 480
Db 794 TATGATGAAACAGGTCATGGAGATGATATTTAGACCATCAAGTCAACCACTGATATTT 853
QY 481 TCCTCTCTGATGTTCTGGATGTCAGATATTTGCTGTGTCCTCATCGTTATTTGTT 540
Db 854 TCCTCTCTGATGTTCTGGATGTCAGATATTTGCTGTGTCCTCATCGTTATTTGTT 913
QY 541 GCAATGATAGAGATTTATATACCTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTC 600
Db 914 GCAATGATAGAGATTTATATACCTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTC 973
QY 601 TATGCTGCTACGTCCTCAGTGAATGGTTATTTTGGAGAAAGTCGTATGCTAGACAGGA 660
Db 974 TATGCTGCTACGTCCTCAGTGAATGGTTATTTTGGAGAAAGTCGTATGCTAGACAGGA 1033
QY 661 GGAAGGATGATGATAAGCAGATGTTTATTTGGGCAATTCCTATCCAGCTATGGTGTG 720
Db 1034 GGAAGGATGATGATAAGCAGATGTTTATTTGGGCAATTCCTATCCAGCTATGGTGTG 1093
QY 721 GGCACCTGCTTCTTCATCAATTTATAGCCATTTATACCAGCTTCAAGAGCCATTCCT 780
Db 1094 GGCACCTGCTTCTTCATCAATTTATAGCCATTTATACCAGCTTCAAGAGCCATTCCT 1153
QY 781 TTTGGACAAATGGTGGCGGTTGTTGATCTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 840
Db 1154 TTTGGACAAATGGTGGCGGTTGTTGATCTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1213
QY 841 GTTGGTACATPACTTGGCCGAAATCTGTCAGGTGAGCCCAATTTCTGTTGCTGTCAT 900
Db 1214 GTTGGTACATPACTTGGCCGAAATCTGTCAGGTGAGCCCAATTTCTGTTGCTGTCAT 1273
QY 901 GCTGTGCTGCTCTATACCGGAGAAATGGTTGATGAGGCTGCGGTTATTTGTTG 960
Db 1274 GCTGTGCTGCTCTATACCGGAGAAATGGTTGATGAGGCTGCGGTTATTTGTTG 1333
QY 961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATGAAATGATTTTCACTTTCACTGT 1020
Db 1334 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATGAAATGATTTTCACTTTCACTGT 1393
QY 1021 TTTGGGCAATAGATCTATATGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1080
Db 1394 TTTGGGCAATAGATCTATATGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1453
QY 1081 TGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
Db 1454 TGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1513
QY 1141 TACCGGTGGCAATGGACAAGTTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1200
Db 1514 TACCGGTGGCAATGGACAAGTTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1573
QY 1201 TATTCCTTTTACTACTATTTTTCRAACAAGATGCTGCTGCTGCTGCTGCTGCTGCTG 1260
Db 1574 TATTCCTTTTACTACTATTTTTCRAACAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1633
QY 1261 TACTTTGGATATATGGCGGTTATTTAGCAGCCCTTGGGATATATGTTGGAGCGATT 1317
Db 1634 TACTTTGGATATATGGCGGTTATTTAGCAGCCCTTGGGATATATGTTGGAGCGATT 1690

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RESULT 2

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US-09-786-681A-1
; Sequence 1, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
; APPLICANT: HIDAKA, Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES

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; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786,681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2072
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (49)..(1794)
US-09-786-681A-1

Query Match 100.0%; Score 1317; DB 4; Length 2072;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACATAGATGATTTTACCAATATGGGTATTTGTTGGTGGCTGATGATAAAATGGAGAA 60
Db 421 ATGTACATAGATGATTTTACCAATATGGGTATTTGTTGGTGGCTGATGATAAAATGGAGAA 480
QY 61 GATTAATCTCTTTGGACCTATATAAAACCTTGAAATAGGTTTAAATGGAATCGAATTTGTT 120
Db 481 GATTAATCTCTTTGGACCTATATAAAACCTTGAAATAGGTTTAAATGGAATCGAATTTGTT 540
QY 121 GATGTTAATCTAACTAGTGAAGGAAAGTGAACCTGTTCCAAATCTTAAATCCAGATG 180
Db 541 GATGTTAATCTAACTAGTGAAGGAAAGTGAACCTGTTCCAAATCTTAAATCCAGATG 600
QY 181 TCATATTCAGTAAATGAAAAAGTCAGATGTGAAATTTGAAGATCGAATTTGACAAATAT 240
Db 601 TCATATTCAGTAAATGAAAAAGTCAGATGTGAAATTTGAAGATCGAATTTGACAAATAT 660
QY 241 CTTGATCCGTCCTTTTTCACATCGGATTCATTTGGTTTCAATTTTCACTCCCTCATG 300
Db 661 CTTGATCCGTCCTTTTTCACATCGGATTCATTTGGTTTCAATTTTCACTCCCTCATG 720
QY 301 ATGTFGATCTTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAAGAT 360
Db 721 ATGTFGATCTTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAAGAT 780
QY 361 TATGCTCGTACAGTAAAGAGGAAATGATGATATGGATAGAGACCTAGGAGTAA 420
Db 781 TATGCTCGTACAGTAAAGAGGAAATGATGATATGGATAGAGACCTAGGAGTAA 840
QY 421 TATGATGGAACAGGTGTCATGGAGATGATTTTAGACCATCAAGTCAACCACTGATATTT 480
Db 841 TATGATGGAACAGGTGTCATGGAGATGATTTTAGACCATCAAGTCAACCACTGATATTT 900
QY 481 TCCTCTCTGATGTTCTGGATGTCAGATATTTGCTGTGCTCTCATCGTTATTTGTT 540
Db 901 TCCTCTCTGATGTTCTGGATGTCAGATATTTGCTGTGCTCTCATCGTTATTTGTT 960
QY 541 GCAATGATAGAGATTTATATACCTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTC 600
Db 961 GCAATGATAGAGATTTATATACCTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTC 1020
QY 601 TATGCTGCTACGTCCTCAGTGAATGGTTATTTTGGAGAAAGTCTGTTAGTACAGGA 660
Db 1021 TATGCTGCTACGTCCTCAGTGAATGGTTATTTTGGAGAAAGTCTGTTAGTACAGGA 1080
QY 661 GGAAGGATGATGATAAGCAGATGTTTATTTGGGCAATTCCTATCCAGCTATGGTGTG 720
Db 1081 GGAAGGATGATGATAAGCAGATGTTTATTTGGGCAATTCCTATCCAGCTATGGTGTG 1140
QY 721 GGCACCTGCTTCTTCATCAATTTTACATGCCATTTATACCAGCTTCAAGAGCCATTCCT 780
Db 1141 GGCACCTGCTTCTTCATCAATTTTACATGCCATTTATACCAGCTTCAAGAGCCATTCCT 1200
QY 781 TTTGGACAAATGGTGGCGGTTGTTGATCTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 840
Db 1201 TTTGGACAAATGGTGGCGGTTGTTGATCTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGT 1260

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QY 841 GTTGGTCAATACATTGGCCGAAATCTGTCAAGTCAAGCCCAACTTTCCTGTCTGTCAAT 900
 Db 1261 GTTGGTCAATACATTGGCCGAAATCTGTCAAGTCAAGCCCAACTTTCCTGTCTGTCAAT 1320
 QY 901 GCTGTGCTCGTCTCTATACCGGAGAAAAATGGTTTCATGAGCGCTGCGGTATTGTTTCG 960
 Db 1321 GCTGTGCTCGTCTCTATACCGGAGAAAAATGGTTTCATGAGCGCTGCGGTATTGTTTCG 1380
 QY 961 CTGGGTGGAATTTACCTTTTGGTTCAACTTTTATTGAAATGATTTCATCTTCAGTCT 1020
 Db 1381 CTGGGTGGAATTTTACCTTTTGGTTCAACTTTTATTGAAATGATTTCATCTTCAGTCT 1440
 QY 1021 TTCTGGGCATATAGATCTATTATGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1080
 Db 1441 TTCTGGGCATATAGATCTATTATGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
 QY 1081 TGCATTGTGACTGTCTGTGACTATTGTGTGACATATTTTCTACTAAATGCAGAAGAT 1140
 Db 1501 TGCATTGTGACTGTCTGTGACTATTGTGTGACATATTTTCTACTAAATGCAGAAGAT 1560
 QY 1141 TACCGGTGGAATGGAGCAAGTTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1200
 Db 1561 TACCGGTGGAATGGAGCAAGTTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
 QY 1201 TATTCCTTTTACTACTATTTTTCAAAAACAAAGATGATGGCTTATTTCAAACATCATTT 1260
 Db 1621 TATTCCTTTTACTACTATTTTTCAAAAACAAAGATGATGGCTTATTTCAAACATCATTT 1680
 QY 1261 TACTTTGGATATATGGCGGTATTATAGACAGCCTTGGGGATATATGTGTGGAGCGATT 1317
 Db 1681 TACTTTGGATATATGGCGGTATTATAGACAGCCTTGGGGATATATGTGTGGAGCGATT 1737

RESULT 3

US-09-621-976-18829
 ; Sequence 18829, Application US/09621976
 ; Patent No. 6639063
 ; GENERAL INFORMATION:
 ; APPLICANT: Dumas Milne Edwards, J.B.
 ; APPLICANT: Jobert, S.
 ; APPLICANT: Giordano, J.Y.
 ; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
 ; FILE REFERENCE: GENSET.054PR2
 ; CURRENT APPLICATION NUMBER: US/09/621.976
 ; CURRENT FILING DATE: 2000-07-21
 ; NUMBER OF SEQ ID NOS: 19335
 ; SOFTWARE: Patent.pm
 ; SEQ ID NO 18829
 ; LENGTH: 444
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-621-976-18829

Query Match 33.7%; Score 444; DB 4; Length 444;
 Best Local Similarity 100.0%; Pred. No. 1.le-108;
 Matches 444; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 130 CTAATACTAGTGAAGGAAAGGTGAAACTGTTCCCAATATCTAAATCCAGATGTCATATTC 189
 Db 1 CTAATACTAGTGAAGGAAAGGTGAAACTGTTCCCAATATCTAAATCCAGATGTCATATTC 60
 QY 190 GTAAATATGGAATAAGTCAAGATGTAATTTGAAGATCGATTGCAAAATATCTTGATCCG 249
 Db 61 GTAAATATGGAATAAGTCAAGATGTAATTTGAAGATCGATTGCAAAATATCTTGATCCG 120
 QY 250 TCCTTTTTCACATCGGATTCATGTTTTCATTTTCAATTTTCACTCCCTTCATGATGGTATC 309
 Db 121 TCCTTTTTCACATCGGATTCATGTTTTCATTTTCACTCCCTTCATGATGGTATC 180
 QY 310 TTCTTTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATTTATGTCGG 369
 Db 181 TTCTTTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATTTATGTCGG 240

QY 370 TACAGTAAAGGAGGAAATCGATGATATCGATAGACCTAGGAGATGAATATGGATGG 429
 Db 241 TACAGTAAAGGAGGAAATCGATGATATCGATAGACCTAGGAGATGAATATGGATGG 300
 QY 430 AAACAGGTGCAATGGAGATGTTTATAGACCATCAAGTCAACCACTGATATTTTCTCTCTG 489
 Db 301 AAACAGGTGCAATGGAGATGTTTATAGACCATCAAGTCAACCACTGATATTTTCTCTCTG 360
 QY 490 ATTGTTCTGATGTCAGATATTTGCTGTGTCTCTCATCGTTATATTTGTTGCAATGATA 549
 Db 361 ATTGTTCTGATGTCAGATATTTGCTGTGTCTCTCATCGTTATATTTGTTGCAATGATA 420
 QY 550 GAAGATTTATATATCTAGAGAGGGA 573
 Db 421 GAAGATTTATATCTAGAGAGGGA 444

RESULT 4

US-09-513-999C-3708
 ; Sequence 3708, Application US/09513999C
 ; Patent No. 6783961
 ; GENERAL INFORMATION:
 ; APPLICANT: Dumas Milne Edwards, J.B.
 ; APPLICANT: Ducleert, A.
 ; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
 ; FILE REFERENCE: 59 US2 REG
 ; CURRENT APPLICATION NUMBER: US/09/513.999C
 ; CURRENT FILING DATE: 2000-02-24
 ; PRIOR APPLICATION NUMBER: US 60/122.487
 ; PRIOR FILING DATE: 1999-02-26
 ; NUMBER OF SEQ ID NOS: 36681
 ; SOFTWARE: Patent.pm
 ; SEQ ID NO 3708
 ; LENGTH: 440
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 180...440
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 151
 ; OTHER INFORMATION: m=a or c
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 155
 ; OTHER INFORMATION: s=g or c
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 162
 ; OTHER INFORMATION: k=g or t
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 184
 ; OTHER INFORMATION: n=a, g, c or t
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 323
 ; OTHER INFORMATION: w=a or t
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 343
 ; OTHER INFORMATION: n=a, g, c or t
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 397
 ; OTHER INFORMATION: m=a or c
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 400

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; OTHER INFORMATION: m=a or c
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 2
; OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 55
; OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 73
; OTHER INFORMATION: Xaa=Ala or Asp
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 74
; OTHER INFORMATION: Xaa=Lys or Thr
; US-09-513-999C-3708

Query Match          29.1%; Score 383.4; DB 4; Length 440;
Best Local Similarity 95.7%; Pred. No. 1.4e-92;
Matches 420; Conservative 5; Mismatches 8; Indels 6; Gaps 3

Qy 218 TTGAAGATCGATTTCACAAATATCTTGATCGGTCCTTTTTTCAACATCGGATTCATGGT 277
Db 2 TTGAAGATCGATTTCACAAATATCTTGATCGGTCCTTTTTTCAACATCGGATTCATGGT 61

Qy 278 TTTCAATTTCAACCTCCTTCATGATGGTGATCTTCTTGGTGGGCTAGTTTCAATGATTT 337
Db 62 TTTCAATTTTCAACCTCCTTCATGATGGTGATCTTCTTGGTGGGCTAGTTTCAATGATTT 121

Qy 338 TAATGAGAACATTAAAGAAAG----ATTATGCTCGGTACAGTAAAGAGGAAGAAATGGAT 393
Db 122 TAATGAGAACATTAAAGAAAGAAATTAATGCTCGGTACAKTAAAGAGGAAGAAATGGAT 181

Qy 394 GAT-ATGGATAGAGACCTTAGCAGATGAATATGGATGGAACACAGTGCATGGAGATGATT 452
Db 182 GANGATGGATAGAGACCTTAGCAGATGAATATGGATGGAACACAGTGCATGGAGATGATT 241

Qy 453 TAGACCATCAAGCTACCCACCTGATATTTCCCTCTCTGATTTGGTTCTGGATGTCAGATATT 512
Db 242 TAGACCATCAAGCTACCCACCTGATATTTCCCTCTCTGATTTGGTTCTGGATGTCAGATATT 301

Qy 513 TCGTGTGCTCTCATCGTTATTTATTTGTTGCAATGATAGAGATTTATATCTAGAGAGGG 572
Db 302 TCGTGTGCTCTCATCGTTATTTATTTGTTGCAATGATAGAGATTTATATCTAGAGAGGG 361

Qy 573 ATCAATGTCTCAGTACAGCCATTTTGTCTATGCTGCTACGTCCT-CCAGTGAATGGTTATT 631
Db 362 ATCAATGTCTCAGTACAGCCATTTTGTCTATGCTGCTGCTGCTGCTCCACAGTGAATGGTTATT 421

Qy 632 TTGGAGGAAGTCTGTATGC 650
Db 422 TTGGAGGAAGTCTGTATGC 440

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RESULT 5
US-09-270-767-679/c
; Sequence 679, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 679
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-679

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	Query Match	28.1%; Score 369.8; DB 4; Length 771;
	Best local similarity 67.7%; Pred. No. 7.7e-89;	
	Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;	
Qy	190 GTAAATGGAAAGTCAGATGTGAATTTGAAGATCGATTTGACAAATATCTTGATCCG 249	
Db		
Qy	765 GTCAACTGGAAGCCCAAGAGGTGGAGTTCAAGAAATCGATTCGACAAAGTACCTGGATCCC 706	
Db		
Qy	250 TCCTTTTTCACACATCGGATTCATTCGGTTTTCATTTTCAACTCCCTTCATGATGGTGATC 309	
Db		
Qy	705 AACTCTCTCCAGCACAGGATCCACTGGTCAGCATCTTCAACAGCTTCATGATGGTCATC 646	
Db		
Qy	310 TTCTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATTTATGCTCGG 369	
Db		
Qy	645 TTCTGGTGGGCTGTGGTGTCCATGATCTCTGATGCGAACTCTGGGCGAAGGATTTATGTCGG 586	
Db		
Qy	370 TACAGTAAAGAGAAAGAAATGGAATGATATGATAGAGACCTACGAGATGAATATGGATGG 429	
Db		
Qy	585 TACAGTAAGACAGAGAAATCGACGACATGGACGGAGATCTTGGTGATGAATACGGCTGG 526	
Db		
Qy	430 AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCATCGATATTTTCCCTCTCTG 489	
Db		
Qy	525 AAGCAGGTGCATGGCATGTCTTCCTGGTCTCCGCCCAACACACTGCTCTTCTCGGCGTTG 466	
Db		
Qy	490 ATTGGTCTGGATGTCAGATATTTGCTGTGTCTCTCATGTTAATATTGTGTCAATGATA 549	
Db		
Qy	465 GTGGGCGCTGGATACCAACTGATTTCCGGTTGTATTTCTGTGTGATCATGTTTCGGCATGTT 406	
Db		
Qy	550 GAAGATTATATACTCAGAGGGGATCAATGCTCAGTACAGCCATATTTGCTATGCTGCT 609	
Db		
Qy	405 GGTGAATTGTACACGGAACGGGCTCCATGCTGTCCAGGCTATATTTGTGTATGCGCC 346	
Db		
Qy	610 ACCTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTTAGACAGAGGAAAGAGA 669	
Db		
Qy	345 ACCTCACCACATCAATGGATACATTGGAGGATCGCTATATGCCCGCCCTGGGTGACGCATG 286	
Db		
Qy	670 TGATTAAGCAGATGTTTATTTGGGCATTCCTTTATCCGACATGTTGTGTGCGACTGCC 729	
Db		
Qy	285 TGGATCCGACAGATGTGGTGTCCGCTTTTACAGTCCAGTGGCTGTGTGCGGCACGGCT 226	
Db		
Qy	730 TTCTTCATCAATTTATAGCCATTTATACCATGCTTTCAGAGCCATTCCTTTTGGAAACA 789	
Db		
Qy	225 TTCTGTATCAACTTCATTCGCATGGATATCACGCCCTCGAGASCCATTCCTTCGGTACC 166	
Db		
Qy	790 ATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTCTTCCTCTAAATCTTGTGTGTACA 849	
Db		
Qy	165 ATGGTGGCGGTACAGTGCATCTGCTCTGTTTGTTCATCTGCCCTTGACTCTGTGTGGGTACT 106	
Db		
Qy	850 ATACTTTGGCGGAATCTGTCAAGTCAGGCCCAACTTTCCCTTGTGCTGTCAATGCTGTGCC 909	
Db		
Qy	105 GTCGTGGGCGCGAATCTGAGCGGCCAACCGGACTTTCATGCCGCTGTCAACGGGTGGCCA 46	
Db		
Qy	910 CGTCCCTATACCGGAGAAAAATGGTTTCATGGAGCCCTGCGGTATT 954	
Db		
Qy	45 CGACCCATTTCGAAAGAGAGTGTACATGGAGCCACTGATTATT 1	
Db		

```

RESULT 6
US-09-270-767-15961/c
; Sequence 15961, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15961
; LENGTH: 771
; TYPE: DNA

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; ORGANISM: Drosophila melanogaster
; US-09-270-767-15961
;
; Query Match      28.1%; Score 369.8; DB 4; Length 771;
; Best Local Similarity 67.7%; Pred. No. 7.7e-89;
; Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;
;
QY 190 GTAAATGGAAGAAAGTCAGATGTCGAATTTCAAGATCGATTTGACAAATATCTTGATCCG 249
Db 765 GTCACTGGAAGCCAGCAGAGTGAGTTCAAGAAATCGATTCGACAAAGTACCTGGATCCC 706
QY 250 TCCCTTTTCAACATCGGATTCATTTGTTTCAATTTTCAATTTTCAATCTCTTCATGATGATC 309
Db 705 AACTTCTCCAGCACAGGATCCACTGGTTCAGCATCTTCAACAGCTTCATGATGTCATC 646
QY 310 TTCTTGGTGGGCTTAGTTCAATGATTTTAATGAGACATTAAGAAAAGATTAATGCTCGG 369
Db 645 TTCTTGGTGGGCTTGGTGTCCATGATTCGTATGCGAACTCTGCGCAAGGATTAATGCTCGG 586
QY 370 TACAGTAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGG 429
Db 585 TACAGTAAGAGCAGGAATCGACAGATCGAGCGAGATCTTGGTATGATACGGCTGG 526
QY 430 AAACAGTGTGATGAGATGATTTAGACCATCAAGTCAACCCATGATATTTTCTCTCTCTG 489
Db 525 AAGCAGGTGATGCGATGCTTCCGTTCTCCGCCCAACACACTGCTCTTCTCGGGCTTG 466
QY 490 ATTGTTCTGATCTCAGATATTTGCTGTGCTCTCATCTCTATTTATTGTTGCAATGATA 549
Db 465 GTGGGCGTGGATACCAACTGATTTCCGTTGTTATCTTGTGTGATCATGTCGCCATAGTT 406
QY 550 GAAGATTATATCTGAGAGGGATCAATGCTCAGTACAGCCATATTTGCTATGCTGCT 609
Db 405 GGTGAATTGTACCGGAACGGGCTCCATGCTGTGCCGCTATATTTGTATGTCGCC 346
QY 610 ACCTCTCCAGTATGTTTATTTGGAGGAGTCTGATGCTAGACAGAGGAGAGAGA 669
Db 345 ACCTCACCAATCAATGATATCTTTGGAGATGCTCTATGCCCGCTGGTGGACGATG 286
QY 670 TGGATAAGCAGATGTTTATTTGGGGCATTCCTATCCAGCATGATGTTGCTGGCACTGCC 729
Db 285 TGGATCCGACAGATGCTGGTGTCCGCTTTACAGTTCAGTGGCTGTGTCCGACGGCT 226
QY 730 TTCTTCATCAATTTCAATGACATTTATACATGCTTTCAAGAGCCATTCCTTTTGAACA 789
Db 225 TTCTGATCAACTTCATTTGCCAATGGATATCAGCCCTCGAGAGCCATTCCTTCGGTACC 166
QY 790 ATGTTGGCGGTTTGTTCATCTGTTTGTGTTTGTATCTTCTCTAAATCTTGTGTTGTA 849
Db 165 ATGTTGGCGGTCAGTGCATCTGCTGTTTGTGTAATCTGCTGCTGCTGCTGCTGCTGCT 106
QY 850 ATACTTGGCGGAATCTGTGAGTCAAGCCCAACTTTTCTGCTGTCAATGCTGTGCT 909
Db 105 GTCTGGGCGCAATCTGGAGCGCAACCGGACTTTCCATGCGCGGTCAACCGGTTGCCA 46
QY 910 CGTCTATACGGGAGAAATGTTTCATGAGCTCGGCTTATT 954
Db 45 CGACCCATTCGGAAGAGAGTGGTATCATGAGCCACTGATTAT 1

RESULT 7
US-09-959-004-6
; Sequence 6, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Furvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; TITLE OF INVENTION: PROTEINS
```

Db 1452 CCTTGGAGGTGAGAAGTGGAAACAAATGTTTATTAACATCATTTCTTGTGCTGGGA 1511
Qy 713 TGGTGTGGCACTGCCCTTCTTCAATCAATTCATAGCCATTTATACCATGCTTCAAGAG 772
Db 1512 TTGTAATTCGCTGACTTCTTTATAATGAATCTGATCCTCTGGGAGAAGGATCTTCAGCAG 1571
Qy 773 CCATTCCTTTTGGAAACATGGTGGCCCTTGTGGCATCTGTTTTTTTGTGTTATTTCTCCCTC 832
Db 1572 CTATTCCTTTTGGGACACTGGTTCGCCAATTTGGCCCTTGGGTTCTGCAATCTGTGGCCTC 1631
Qy 833 TAAATCTTGTGTGTAATACTTTGGCCGAAATCTGTGAGTCAGCCCAATTTCTTGTGTC 892
Db 1632 TGACGTTTATTTGGTGCACTATCTTGGTTTTTAAGAAGATGCCATTGAACAC-...CCAGTTC 1688
Qy 893 GTGTCAATGCTGCTCGTCCCTATACCGGAGAAATAATGGTTTCATGGAGCCTGCGGTTA 952
Db 1689 GAACCAATCAGATTCACAGTCCAGATTCCTGAACAGTCTGTTACACGAAGCCCTTGCCCTG 1748
Qy 953 TTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTTGAAATGATTTTCATCT 1012
Db 1749 GTATTATCAATGGAGGGATTTTGGCCCTTGGCTGCACTTTTATACAACTTTTCTTCATTC 1808
Qy 1013 TCAGCTCTTCTGGGCATATAAGATCTATTATGTCATGCTTCATGCTTCATGCTGGTGTG 1072
Db 1809 TGAATAGTATTTGCTACACAGATGATTACATGTTTGGCTTCTTCTTCTGCTGTTTAA 1868
Qy 1073 TTATCCTGTGCAATGTGACTGTCTGTGACTATTGTGTCACATATTTTCTACTAAATG 1132
Db 1869 TCAATTTGGTTATTAACCTGTCTGGAAGCACTATACCTTTGCTATTTCACCTATGIG 1928
Qy 1133 CAGAAGATTACCGTGGCAATGGAACAAAGTTTCTCTGCTGTCATCAACTGCAATCTATG 1192
Db 1929 CAGAGGATTATCATTTGGCAATGGCGTTCAITTCCTTAGAGTGGCTTTTACTGCGAGTTTAT 1988
Qy 1193 TTTACATGTTATCTTTTACTACTATTTTTCACAAACAAAGATGATGCTTATTTTCAAA 1252
Db 1989 TCTTAATCTAGCAGTACACTACTCTTTTCAAAACCTGCAATCAGGGAACAGCAAGCA 2048
Qy 1253 CATCATTTTACTTTGGATATATGGCGTATT 1283
Db 2049 CAATTCGTACTTTGGTTATACCATGATAAT 2079

RESULT 8
US-09-270-767-28434
; Sequence 28434, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28434
; LENGTH: 571
; TYPE: DNA
; ORGANISM: *Drosophila melanogaster*
US-09-270-767-28434

Query Match 14.7%; Score 193; DB 4; Length 571;
Best Local Similarity 73.3%; Pred. No. 7.7e-42;
Matches 247; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

Qy 974 TACCTTTGGTTCATCTTTATGAAATGATTTTCACTCTTCACTCTTTCTGGGCATATA 1033
Db 1 TGGCCCTTGGATCCATCTTCTTACGAGATGATCTTCACTCTTCACTCTTCTGGCGGTACA 60
Qy 1034 AGATCTATTATGCTATGCTGCTTCATGCTGGTGGTGGTATCTCTGTCGATTTGTGACTG 1093
Db 61 AGATCTACTGCTACGGCTTCAATGTTGCTGGTTTTCAGCAUUCTGACTGTGCTACCG 120

Qy 1094 TCTGTGTGACTATTCTGTGCACATATTTTCTAATAATGCAGAAATTTACCGTGGCAAT 1153
Db 121 TGTGGCTCACCATCGTGTGCACCTACTTCTGCTAATGCCGAGATTTACCGATGGCAGT 180
Qy 1154 GGACAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCCCTTTTACT 1213
Db 181 GGACGAGTTTCATGGCTCGGGCTCCACGTCGATTTACGTAGCCCTATTCTCTTCTATT 240
Qy 1214 ACTATTTTTCAAAACAAAGATGATGCTTATTTCAAACATCATTTTACTTTGGATATA 1273
Db 241 ACTTCTTCTTTAAACCAAATGTTGCTCTGTTCCAAACGGCCTTCTACTTTGGCTACA 300
Qy 1274 TGGCGGTATTAGCACAGCCTTTGGGATPAATGTGTGG 1310
Db 301 TGGCACTCTTCAGCGGCGCCTTTGGGCATTATCTGCGG 337

RESULT 9
US-09-270-767-12633
; Sequence 12633, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12633
; LENGTH: 1151
; TYPE: DNA
; ORGANISM: *Drosophila melanogaster*
US-09-270-767-12633

Query Match 14.7%; Score 193; DB 4; Length 1151;
Best Local Similarity 73.3%; Pred. No. 1.1e-41;
Matches 247; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

Qy 974 TACCTTTGGTTCATCTTTATGAAATGATTTTCACTCTTCACTCTTTCTGGGCATATA 1033
Db 1 TGGCCCTTGGATCCATCTTCTTACGAGATGATCTTCACTCTTCACTCTTCTGGCGGTACA 60
Qy 1034 AGATCTATTATGCTATGCTGCTTCATGATGCTGGTGGTGGTATCTCTGTGCAATTTGTGACTG 1093
Db 61 AGATCTACTGCTACGGCTTCAATGTTGCTGGTTTTCAGCATCTGACTGTGTCACCG 120
Qy 1094 TCTGTGTGACTATTGTGCACATATTTTCTAATAATGCAGAAATTTACCGTGGCAAT 1153
Db 121 TGTGGCTCACCATCGTGTGCACCTACTTCTGCTAATAATGCCGAGATTTACCGATGGCAGT 180
Qy 1154 GGACAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCCCTTTTACT 1213
Db 181 GGACGAGTTTCATGGCTCGGGCTCCACGTCGATTTACGTAGCCCTATTCTCTTCTATT 240
Qy 1214 ACTATTTTTCAAAACAAAGATGATGCTTATTTCAAACATCATTTTACTTTGGATATA 1273
Db 241 ACTTCTTCTTTAAACCAAATGTTGCTGCTGTTCCAAACGGCCTTCTACTTTGGCTACA 300
Qy 1274 TGGCGGTATTAGCACAGCCTTTGGGATPAATGTGTGG 1310
Db 301 TGGCACTCTTCAGCGGCGCCTTTGGGCATTATCTGCGG 337

RESULT 10
US-09-248-796A-6208
; Sequence 6208, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; FILE REFERENCE: 107196.132

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; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 6208
; LENGTH: 726
; TYPE: DNA
; ORGANISM: Candida albicans
; US-09-248-796A-6208

Query Match      8.7%;   Score 114.6;   DB 4;   Length 726;
Best Local Similarity 51.7%;   Pred. No. 6.4e-21;
Matches 286;   Conservative 0;   Mismatches 284;   Indels 3;   Gaps 1;

QY      658  GGAGGAAGGAGATGGATPAAGACAGATGTTTATTTGGGCATTCCTTATCCAGCTATGGTG 717
Db      13   GGTGGTGACAAATGGAAATTTGAATATGTTTTTGACACCAGTTTTAGTACCAGGGATTTTG 72

QY      718  TGTGGCACTGCCCTCTTCATCAATTCATAGCCATTTATTACCATGCTTCAAGAGCCATT 777
Db      73   TCTCTGTTTTGTTGTGTGTAATTCCTTTTAATTTTCAGTACAACTCTCTGGTGCCTATT 132

QY      778  CCTTTTGGAAACAATGGTGGCCGTTTGTGTGCATCTGTGTTTTTTTGTATTCTTCCTCTAAAT 837
Db      133  CATATGGGCAATGTTTGGCAATGTCTTAATTTGGTTTCATTATATCGATTCCATTAAGT 192

QY      838  CTGTTGGTACATACTTGTGGCGAAATCTGTCCAGGTGAGCCCACTTTCCCTTGTGTCGTC 897
Db      193  GTATTGGATCAATTTTAGCTAGTAATAGACCATTATTATC--GGTACCAGTGAGAACT 249

QY      898  AATGCTGTGCTCGTCTCTATACCGGAGAAAATGGTTCATGGAGCGCTGGGTTATTGTT 957
Db      250  AATCAAATTCGAGACAAATTCCTACTCAACCATGGTATTTAAGTACTATCCCGTAATG 309

QY      958  TGCCTGGTGGAATTTTACCTTTGGTTCAATCTTTATTGAAATGTAATTTCACTTCACG 1017
Db      310  TTTATTTCCGGAATTTTCCCATTTGGATCAATGCTGTGGAATGTATTTTATTATTATCA 369

QY      1018  TCTTTCTGGGCATTAAGATCTATTATGCTCTATGGCTTCATGATGCTGGTGTGCTGTTATC 1077
Db      370  TCAATTTGGTTTAATAGATTTTATTATGTTGGATTTTATTTTTTCTGTTTCATATTA 429

QY      1078  CTGTGCATTTGTGACTGTCTGTGACATTTGTGTGCAATATTTTCTTACTAAATGCGAA 1137
Db      430  ATGATTTTAACTAGTAGTTTAAATTAATCTATTTTAAATGATTTATTATCTATTATGTTCA 489

QY      1138  GATTACCGGTGGCAATGGACAAGTTTTCTCTCTGTCATCAACTGCAACTCTATGTTTAC 1197
Db      490  AATTATAAATGGCAATGGAAATCAATTTATTGTTGGAGAGGTTGTGCAATTTATGTAATT 549

QY      1198  ATGTATTCCTTTT 1210
Db      550  ATTCAATCAATTT 562

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RESULT 11
US-09-313-294A-2292
; Sequence 2292, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Laigudi, Raghunath V.
; APPLICANT: Ito, Laura Y.
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313,294A
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL Program
; SEQ ID NO 2292

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; LENGTH: 262
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6476212 700552439H1
US-09-313-294A-2292

Query Match          7.6%; Score 100; DB 4; Length 262;
Best Local Similarity 68.3%; Pred. No. 3.1e-17;
Matches 153; Conservative 0; Mismatches -70; Indels

Qy 1094 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAATTAC
Db 39 TCTCGTGCTACTATTGTGGGTACTATTTCCTTGCTGAACGCCGAGAACTAC
Qy 1154 GGACAAGTTTTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTAT
Db 99 GGACGTGCTTTTCTTCTGCACGGTCAACCGCTCTGTGCTGTATCTGTGAC
Qy 1214 ACTATTTTTTCAAAACAAGAATGTATGGCTTATTTTCAAACCATCATTTTAC
Db 159 ACTACCATGTGAAGCAAGAATGTCAGGCTTCTCCAGCAAGTTTCTAT
Qy 1274 TGGCGGTATTTAGCACACGCTTGGGGAATAATGTGTGGAGCGGATT 1317
Db 219 CGCTGATGTTCTGC-CTGGCCCTAGSCATACTTTGTGGAGCTATT 261

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RESULT 12
US-09-385-982-530/c
; Sequence 530, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; TITLE OF INVENTION: PRODUCTS: 11
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 530
; LENGTH: 769
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(769)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-530

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	Query Match	7.0%;	Score 91.6;	DB 3;	Length 769;
	Best Local Similarity	57.0%;	Pred. No. 8.7e-15;		
	Matches 166;	Conservative 0;	Mismatches 125;	Indels 0;	Gaps 0;
Qy	905	TGCGTGTCTATACCGGAGAAAAATGGTTTCATGGAGCGTCGGGTATTGTTGGCTGG	964		
Db	308	TCACACNGTCAGATTCGTGAACACGTCTTCACAGAGGCCCTTGCCTGGTATTATCATGG	249		
Qy	965	GTGGAAATTTTACCTTTTGTTGTTCAATCTTTATTGAAATGTATTTTCATCTTCACGCTTTTCT	1024		
Db	248	GAGGGATTTTGCCTTTGGCTGCATCTTTATACAACTTTCITTCATTCGAAAGATATTT	189		
Qy	1025	GGGGATATAAGATCTATTATGTCTATGGCTTCATGATCGTGGTGTGGTTATCCTGTGCA	1084		
Db	188	GGTCACACCAAGATGTTATCATGTTTGGCTTCCTATTTCTGGTGTATTATCATTTTGATTA	129		

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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1002
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-702-705-1002

Query Match          4.9%; Score 64.6; DB 4; Length 302;
Best Local Similarity 56.2%; Pred. No. 8.8e-08;
Matches 149; Conservative 0; Mismatches 104; Indels 12; Gaps 1;

QY 1085 TTGTGACTGCTGTGACTATTGTGTGCACATATTTTCTACTAAATGCGAGAGATTACC 1144
Db 128 TTACCTGTTCTGAAGCAACTATATCTTTTGTCTATTTTCCACCTATGTGCGAGAGATTATC 69
QY 1145 GGTGGCAATGACAAGTTTCTCTCTGCTGATCAACTGCAATCTATGTTT 1195
Db 68 ATTGGCAATGGCGTTTCATCTCTACGAGTGGCTTACTGCGAGTTATTCT 18

RESULT 13
US-09-513-999C-3502
; Sequence 3502, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59 US2 REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 3502
; LENGTH: 433
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 100...432
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 86
; OTHER INFORMATION: m=a or c
US-09-513-999C-3502

Query Match          5.5%; Score 73; DB 4; Length 433;
Best Local Similarity 100.0%; Pred. No. 6e-10;
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACATAGATGATTTACCAATATGGGTATTGTTGGTAGGCTGATGAAATGGAGAA 60
Db 361 ATGTACATAGATGATTTACCAATATGGGTATTGTTGGTAGGCTGATGAAATGGAGAA 420
QY 61 GATTACTATCTTT 73
Db 421 GATTACTATCTTT 433

RESULT 14
US-09-702-705-1002/c
; Sequence 1002, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1002
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-702-705-1002

Query Match          4.9%; Score 64.6; DB 4; Length 302;
Best Local Similarity 56.2%; Pred. No. 8.8e-08;
Matches 149; Conservative 0; Mismatches 104; Indels 12; Gaps 1;

QY 243 TGATCCGTCCTTTTTCACATCGGATTCATTTTCAATTTTCAACTCCTTCATCAT 302
Db 253 TTACCTGACCATGAGTGCAGTCCTCCAGATCCACTGGTTTCTATCATTAACCTCGTTGTGT 194
QY 303 GGTGATCTTCTTGTGGGCTTAGTTTCAATGATTTTATGAGAACATTAAAGAAAGATTA 362
Db 193 GGTCTTCTTCTGTCAGGATTCCTGAGCATGATTCATTCGGACCCCTCCGGAAGGACAT 134
QY 363 TGCTCGGTACAGTAAAGAGAGAAATGATGATATGATAGAGACCTTAGGAGATGAATA 422
Db 133 TGCCAACTACAAAGAGAGATGACATTGA-----AGACACCATGGAGGAGTC 86
QY 423 TGGATGGAACAGGTGCATGGAGATGATTTTAGACCATCAAGTCACCCACTGATATTTTC 482
Db 85 TGGGTGGAAGTTGGTGCACGGCGACGCTTTCAGGCCCCCGAGTACCCCATGATCCTCAG 26
QY 483 CTCTCTGATTTGTTCTCGGATGTCAG 507
Db 25 CTCCCTGCTGGGTCAGGCATTTCAG 1

RESULT 15
US-09-736-457-1002/c
; Sequence 1002, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1002
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-736-457-1002

Query Match          4.9%; Score 64.6; DB 4; Length 302;
Best Local Similarity 56.2%; Pred. No. 8.8e-08;
Matches 149; Conservative 0; Mismatches 104; Indels 12; Gaps 1;

QY 243 TGATCCGTCCTTTTTCACATCGGATTCATTTTCAATTTTCAACTCCTTCATCAT 302
Db 253 TTACCTGACCATGAGTGCAGTCCTCCAGATCCACTGGTTTCTATCATTAACCTCGTTGTGT 194
QY 303 GGTGATCTTCTTGTGGGCTTAGTTTCAATGATTTTATGAGAACATTAAAGAAAGATTA 362
Db 193 GGTCTTCTTCTGTCAGGATTCCTGAGCATGATTCATTCGGACCCCTCCGGAAGGACAT 134
QY 363 TGCTCGGTACAGTAAAGAGAGAAATGATGATATGATAGAGACCTTAGGAGATGAATA 422
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 19, 2004, 00:39:27 ; Search time 1086.3 Seconds
(without alignments)
6551.184 Million cell updates/sec

Title: US-09-319-724B-2

Perfect score: 1317

Sequence: 1 agtcatagatgattacc.....ggataatgtgagagcatt 1317

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3627888 seqs, 2701811610 residues

Total number of hits satisfying chosen parameters: 7255776

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications NA:*

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- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
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- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 19: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
- 20: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 21: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1317	100.0	3076	9	US-09-915-582-29
2	1317	100.0	3076	15	US-10-277-802-29
3	1317	100.0	3508	14	US-09-814-533-21837
4	1317	100.0	4024	14	US-10-198-846-10005
5	1315.4	99.9	3370	10	US-09-374-046A-25
6	1315.4	99.9	3370	16	US-10-616-263-25
7	1226	93.1	3389	15	US-10-205-219-122
8	709.6	53.9	6197	16	US-10-062-674-1697
9	590.4	44.8	1070	16	US-10-264-237-1414
10	537.4	40.8	560	16	US-10-242-535A-2630
11	537.4	40.8	560	16	US-10-085-783A-2630
12	499	37.9	1899	17	US-10-437-963-39405

13	492.6	37.4	1867	9	US-09-915-582-13	Sequence 13, Appl
14	492.6	37.4	1867	15	US-10-277-802-13	Sequence 13, Appl
15	491.6	37.3	2039	16	US-10-425-114-26742	Sequence 26742, A
16	491.6	37.3	2068	18	US-10-425-115-101961	Sequence 101961, A
17	483.6	36.7	2355	18	US-10-739-930-4365	Sequence 4365, A
18	481.8	36.6	2406	17	US-10-437-963-14430	Sequence 14430, A
19	478.4	36.3	1713	9	US-09-887-576-809	Sequence 809, App
20	476.8	35.2	1866	9	US-09-887-576-794	Sequence 794, App
21	472.4	35.9	2461	18	US-10-425-115-140808	Sequence 140808, A
22	461.4	35.0	2698	18	US-10-425-115-140919	Sequence 140919, A
23	454.4	34.5	2152	17	US-10-767-701-12720	Sequence 12720, A
24	449.6	34.1	2316	17	US-10-437-963-658	Sequence 658, App
25	435.4	33.1	1803	9	US-09-887-576-812	Sequence 812, App
26	416.4	31.6	419	10	US-09-918-995-3956	Sequence 3956, Ap
27	409.6	31.1	497	11	US-09-969-034-1724	Sequence 1724, Ap
28	406.4	30.9	1535	18	US-10-425-115-21677	Sequence 21677, A
29	406.2	30.8	459	16	US-10-062-674-445	Sequence 445, App
30	365.6	27.8	455	15	US-10-002-631C-133	Sequence 133, App
31	365.6	27.8	455	15	US-10-002-631C-134	Sequence 134, App
32	284.2	21.6	731	16	US-10-333-184-388	Sequence 388, App
33	280.4	21.3	2032	18	US-10-425-115-21679	Sequence 21679, A
34	276.6	21.0	2748	16	US-10-424-599-103451	Sequence 103451, A
35	274.4	20.8	1033	16	US-10-425-114-16392	Sequence 16392, A
36	273.8	20.8	529	14	US-10-198-846-11456	Sequence 11456, A
37	262.6	19.9	600	17	US-10-021-323-3365	Sequence 3365, Ap
38	248.4	18.9	673	14	US-10-198-846-2790	Sequence 2790, Ap
39	227	17.2	2176	16	US-10-424-599-31527	Sequence 31527, A
40	224.2	17.0	2314	17	US-10-767-701-13950	Sequence 13950, A
41	222.2	16.9	1346	17	US-10-767-795-636	Sequence 636, App
42	221	16.8	2101	16	US-10-425-114-3633	Sequence 3633, App
43	219.4	16.7	3097	18	US-10-425-115-17630	Sequence 17630, A
44	218.2	16.6	2099	17	US-10-437-963-18458	Sequence 18458, A
45	216.2	16.4	2095	16	US-10-425-114-5124	Sequence 5124, Ap

ALIGNMENTS

RESULT 1
US-09-915-582-29
; Sequence 29, Application US/09915582
; Patent No. US20020120103A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 17 Human Secreted Proteins
; FILE REFERENCE: PS723P1
; CURRENT APPLICATION NUMBER: US/09/915,582
; CURRENT FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: PCT/US01/01431
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/231,968
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 3076
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (3064)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-915-582-29

Query Match 100.0%; Score 1317; DB 9; Length 3076;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Gaps 0;

QY 1 ATGACATAGATGATTACCAATATGGGTATTGTTGGCTGATGAAATGGAGAA 60

352	ATGTACATAGATGATTTACCAATATGGGTATTGTTGGTGAGCGCTGATGAAATGGAGAA	411
Db		
61	GATTACTATCTTTGGACCTATAAAACTTTGAATAGGTTTTTAATGGAATCGAATTGTT	120
Qy		
412	GATTACTATCTTTGGACCTATAAAACTTTGAATAGGTTTTTAATGGAATCGAATTGTT	471
Db		
121	GATGTTTAATCTAAGTCTAGTGAAGGAAGGTGAAACTTGTTCCAAATACTAAAAATCCAGATG	180
Qy		
472	GATGTTTAATCTAAGTCTAGTGAAGGAAGGTGAAACTTGTTCCAAATACTAAAAATCCAGATG	531
Db		
181	TCATATTTCAGTAAAAATGGAAGAGTCAGATCTGAAATTTGAAAGATCGATTTGACAAATAT	240
Qy		
532	TCATATTTCAGTAAAAATGGAAGAGTCAGATCTGAAATTTGAAAGATCGATTTGACAAATAT	591
Db		
241	CTTGATCCGTCCTTTTTC AACATCGGATTCATTTGGTTTTTCAATTTTCAACTCCTTCATG	300
Qy		
592	CTTGATCCGTCCTTTTTC AACATCGGATTCATTTGGTTTTTCAATTTTCAACTCCTTCATG	651
Db		
301	ATGGTGATCTTTCTTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGACATTTAAGAAAGAT	360
Qy		
652	ATGGTGATCTTTCTTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGACATTTAAGAAAGAT	711
Db		
361	TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTTAGAGATGAA	420
Qy		
712	TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTTAGAGATGAA	771
Db		
421	TATGGATGGAACACAGGTGCATGGAGATGTAATTTAGACCATCAAGTCACCCACATGATTT	480
Qy		
772	TATGGATGGAACACAGGTGCATGGAGATGTAATTTAGACCATCAAGTCACCCACATGATTT	831
Db		
481	TCCTCTCTGATTTGGTCTCGGATGTCAGATATTTGTCGTGTCCTCTCACTCGTTATTATGTT	540
Qy		
832	TCCTCTCTGATTTGGTCTCGGATGTCAGATATTTGTCGTGTCCTCTCACTCGTTATTATGTT	891
Db		
541	GCAATGATAGAAGATTTATATCTAGAGAGGGATCAATGCTCAGTACAGCCATATTGTC	600
Qy		
892	GCAATGATAGAAGATTTATATCTAGAGAGGGATCAATGCTCAGTACAGCCATATTGTC	951
Db		
601	TATGCTGCTAGCTCTCCAGTCAATGGTTATTTGGAGGAGTCTGTAATGCTAGCAGCAAGGA	660
Qy		
952	TATGCTGCTAGCTCTCCAGTCAATGGTTATTTGGAGGAGTCTGTAATGCTAGCAGCAAGGA	1011
Db		
661	GGAAGGAGATGGAATAAGACAGATGTTTATTGGGGCATTCCTTATCCAGCTATGGTGTTG	720
Qy		
1012	GGAAGGAGATGGAATAAGACAGATGTTTATTGGGGCATTCCTTATCCAGCTATGGTGTTG	1071
Db		
721	GGCACTGCTTCTCATCAATTTTCATAGCCATTTATACCATGCTTCAGAGCCATTCCT	780
Qy		
1072	GGCACTGCTTCTCATCAATTTTCATAGCCATTTATACCATGCTTCAGAGCCATTCCT	1131
Db		
781	TTTGGAAACAATGGTGGCGGTTTGTCATCTGTTTTTTTGTATTCTTCCTCTAAATCTTT	840
Qy		
1132	TTTGGAAACAATGGTGGCGGTTTGTCATCTGTTTTTTTGTATTCTTCCTCTAAATCTTT	1191
Db		
841	GTTGGTACAATACTTGGCCGAAATCTGTCAGGTGAGCCCAACTTTCCTGTCGTGTCAAT	900
Qy		
1192	GTTGGTACAATACTTGGCCGAAATCTGTCAGGTGAGCCCAACTTTCCTGTCGTGTCAAT	1251
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901	GCTGTGCTCTGCTCTATACCGGAGAAAAATGGTTTCATGGAGCTGGGGTTATTGTTGC	960
Qy		
1252	GCTGTGCTCTGCTCTATACCGGAGAAAAATGGTTTCATGGAGCTGGGGTTATTGTTGC	1311
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Qy		
1312	CTGGGTGGAATTTTACCTTTGGTTCAATCTTTATTGAAATGTAATTTTCATCTTCACTCT	1371
Db		
1021	TTCTGGGCATATAAGATCTATTATGCTATGGCTTTCATGATGCTGGTGCCTGGTTATCCCTG	1080
Qy		
1372	TTCTGGGCATATAAGATCTATTATGCTATGGCTTTCATGATGCTGGTGCCTGGTTATCCCTG	1431
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RESULT 2

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US-10-277-802-29
; Sequence 29, Application US/10277802
; Publication No. US20030190707A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 17 Human Secreted Proteins
; FILE REFERENCE: PS723PI
; CURRENT APPLICATION NUMBER: US/10/277,802
; CURRENT FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 09/915,582
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: PCT/US01/01431
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/231,968
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 3076
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (3054)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-277-802-29

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Query Match	100.0.0%;	Score 1317;	DB 15;	Length 3076;
Best Local Similarity	100.0.0%;	Pred. No. 0;		
Matches 1317;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	ATGTACATAGATGATTTACCAATATCGGGTATTGTTGGTGAGGCTGATGAAATCGAGAA	60	
Db	352	ATGTACATAGATGATTTACCAATATCGGGTATTGTTGGTGAGGCTGATGAAATCGAGAA	411	
Qy	61	GATTACTATCTTTGGACCTATAAAAACTTGAATAGTGTTTTAATGAAATCGAATTGTT	120	
Db	412	GATTACTATCTTTGGACCTATAAAAACTTGAATAGTGTTTTAATGAAATCGAATTGTT	471	
Qy	121	GATGTTAACTCACTAGTGAAGAAAGGTGAAACTGGTTCCAAATACTAAAAATCCAGATG	180	
Db	472	GATGTTAACTCACTAGTGAAGAAAGGTGAAACTGGTTCCAAATACTAAAAATCCAGATG	531	
Qy	181	TCATATTCACTAAAAATCGAAAAAGTCAGATGTGAAATTTGAAGATCGATTGCAAAATAT	240	
Db	532	TCATATTCACTAAAAATCGAAAAAGTCAGATGTGAAATTTGAAGATCGATTGCAAAATAT	591	
Qy	241	CTTGATCCGTCCTTTTTCACATCGGATTCATGTGTTTCAATTTTCAACTCCTTCATG	300	
Db	592	CTTGATCCGTCCTTTTTCACATCGGATTCATGTGTTTCAATTTTCAACTCCTTCATG	651	
Qy	301	ATGGTGATCTCTGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAAGAT	360	


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Db 1010 TATGCTGCTAGCTCCAGTGAATGGTTATTTGGAGGAAGTCTGTATGCTAGACAAGGA 1069
QY 661 GGAAGGAGATGATTAAGAGAGATTTATTTGGGGCATCTTATCCAGCATTTGGTGT 720
Db 1070 GGAAGGAGATGATTAAGAGAGATTTATTTGGGGCATCTTATCCAGCATTTGGTGT 1129
QY 721 GGCACTGCTCTTCATCAATTTCAVAGCCATTTATPACCATGCTTCAAGAGCCATTCCT 780
Db 1130 GGCACTGCTCTTCATCAATTTCAVAGCCATTTATPACCATGCTTCAAGAGCCATTCCT 1189
QY 781 TTTGGAAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTTCTTCTCTAAATCTT 840
Db 1190 TTTGGAAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTTCTTCTCTAAATCTT 1249
QY 841 GTTGGTACAATACTTTGGCGGAAATCTGTCAAGTCAAGCCCAACTTTTCTTGTGTCAAT 900
Db 1250 GTTGGTACAATACTTTGGCGGAAATCTGTCAAGTCAAGCCCAACTTTTCTTGTGTCAAT 1309
QY 901 GCTGTGCTGCTCTATACCGGAGAAAAATGGTTTCATGAGGCTGCGGTTATTGTTGC 960
Db 1310 GCTGTGCTGCTCTATACCGGAGAAAAATGGTTTCATGAGGCTGCGGTTATTGTTGC 1369
QY 961 CTGGGTGAATTTACCTTTTGGTTCAATCTTTATTTGAATGTATTTCACTTCAGTCT 1020
Db 1370 CTGGGTGAATTTACCTTTTGGTTCAATCTTTATTTGAATGTATTTCACTTCAGTCT 1429
QY 1021 TTCTGGGATATAAGATCTATTTATCTATGCTTCAATGATGCTGCTGCTGTTATCTCTG 1080
Db 1430 TTCTGGGATATAAGATCTATTTATCTATGCTTCAATGATGCTGCTGCTGTTATCTCTG 1489
QY 1081 TGCATGTGATGCTGCTGCTGATTTATTTGTGTCATATTTTCTATCAATGAGAGAT 1140
Db 1490 TGCATGTGATGCTGCTGCTGATTTATTTGTGTCATATTTTCTATCAATGAGAGAT 1549
QY 1141 TACCGTGGCAATGAGAGATTTTCTCTGCTGATCAATCAATCTATGTTTACATG 1200
Db 1550 TACCGTGGCAATGAGAGATTTTCTCTGCTGATCAATCAATCTATGTTTACATG 1509
QY 1201 TATTCCTTTTACTACTATTTTTCACAAACAAGATGATGCTTATTTCAAAACATCAAT 1260
Db 1610 TATTCCTTTTACTACTATTTTTCACAAACAAGATGATGCTTATTTCAAAACATCAAT 1669
QY 1261 TACTTTGGATATAGGGGATTTTAGCACAGCCTTGGGATATGTTGGAGCGATT 1317
Db 1670 TACTTTGGATATAGGGGATTTTAGCACAGCCTTGGGATATGTTGGAGCGATT 1726

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RESULT 4

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US-10-198-846-10005
; Sequence 10005, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10198.846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10005
; LENGTH: 4024

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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1, 2, 4021, 4022, 4023, 4024
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-10005

Query Match 100.0%; Score 1317; DB 14; Length 4024;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACATAGATGATTTTACCAATATGGGGTATTTGGTGGAGCTGATGAAAAATGGAGAA 60
Db 410 ATGTACATAGATGATTTTACCAATATGGGGTATTTGGTGGAGCTGATGAAAAATGGAGAA 469
QY 61 GATTACTATCTTTGGACCTATATAAAACCTTGAATAGTTTTATGGAATCGAATGTT 120
Db 470 GATTACTATCTTTGGACCTATATAAAACCTTGAATAGTTTTATGGAATCGAATGTT 529
QY 121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATCTAAATCCAGATG 180
Db 530 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATCTAAATCCAGATG 589
QY 181 TCATATTCAGTAAAAATGGAAAAAGTCAGATGTGAAAAATTTGAAGATCGATTGCAAAATAT 240
Db 590 TCATATTCAGTAAAAATGGAAAAAGTCAGATGTGAAAAATTTGAAGATCGATTGCAAAATAT 649
QY 241 CTGATCGTCTCTTTTCAACATCGGATTCATTTGGTTTCAATTTTCACTCTCTCATG 300
Db 650 CTGATCGTCTCTTTTCAACATCGGATTCATTTGGTTTCAATTTTCACTCTCTCATG 709
QY 301 ATGTGTGATCTTTCTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAAAGAT 360
Db 710 ATGTGTGATCTTTCTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAAAGAT 769
QY 361 TATGCTCGGTACAGTAAAGAGAGAAATGATGATATGATAGAGACCTAGGAGATGAA 420
Db 770 TATGCTCGGTACAGTAAAGAGAGAAATGATGATATGATAGAGACCTAGGAGATGAA 829
QY 421 TATGATGGAACACAGTGCATGGAGATGATTTTATAGACCATCAAGTCAACCTCATATTT 480
Db 830 TATGATGGAACACAGTGCATGGAGATGATTTTATAGACCATCAAGTCAACCTCATATTT 889
QY 481 TCCCTCTGATGTTGTTTGGATGTCAGATATTTGCTGTGCTCTCATGTTTATTTGTT 540
Db 890 TCCCTCTGATGTTGTTTGGATGTCAGATATTTGCTGTGCTCTCATGTTTATTTGTT 949
QY 541 GCAATGATAGAGATTTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATTTTGTG 600
Db 950 GCAATGATAGAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATTTTGTG 1009
QY 601 TATGCTGCTACGTCCTCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
Db 1010 TATGCTGCTACGTCCTCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1069
QY 661 GGAAGGAGATGATTAAGAGAGATTTATTTGGGGCATCTTATCCAGCATTTGGTGT 720
Db 1070 GGAAGGAGATGATTAAGAGAGATTTATTTGGGGCATCTTATCCAGCATTTGGTGT 1129
QY 721 GGCACTGCTCTTCTCATCAATTTTCAAGCCATTTATTTACCATGCTTCAAGAGCCATTCCT 780
Db 1130 GGCACTGCTCTTCTCATCAATTTTCAAGCCATTTATTTACCATGCTTCAAGAGCCATTCCT 1189
QY 781 TTTGGAAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTTCTTCTCTAAATCTT 840
Db 1190 TTTGGAAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTTCTTCTCTAAATCTT 1249
QY 841 GTTGGTACAATACTTTGGCGGAAATCTGTCAAGTCAAGCCCAACTTTTCTTGTGTCAAT 900
Db 1250 GTTGGTACAATACTTTGGCGGAAATCTGTCAAGTCAAGCCCAACTTTTCTTGTGTCAAT 1309
QY 901 GCTGTGCTGCTCTATACCGGAGAAAAATGGTTTCATGAGGCTGCGGTTATTGTTGC 960

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; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 122
; LENGTH: 3389
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: EP70-P-iso
US-10-205-219-122

Query Match          93.1%; Score 1226; DB 15; Length 3389;
Best Local Similarity 98.6%; Pred. No. 4.2e-293;
Matches 1300; Conservative 0; Mismatches 10; Indels 8; Gaps 6;

Qy 1 ATGTACATAGATGATTACCAATATGAGGATGTTGGTGAGGCTGATGAAATGGAGAA 60
Db 410 ATGTACATAGATGATTACCAATATGAGGATGTTGGTGAGGCTGATGAAATGGAGAA 469
Qy 61 GATTACTATCTTTGGACCTATAAAAACTTGAATAGGTTTAAATGGAATCGAATTGTT 120
Db 470 GATTACTATCTTTGGACCTATAAAAACTTGAATAGGTTTAAATGGAATCGAATTGTT 529
Qy 121 GATGTTAATCTAACTAGTGAAGAAAGGTGAAACT -GGTTCCAAATACCTAAATCCAGAT 179
Db 530 GATGTTAATCTAACTAGTGAAGAAAGGTGAAACTGGGTTCCAAATACCTAAATCCAGAT 589
Qy 180 GTCATATTTCAGTAAATGGAAGAAAGTCAGATGCGAATTTGAAGATCGATTGACAAATA 239
Db 590 GTCATATTTCAGTAAATGGAAGAAAGTCAGATGCGAATTTGAAGATCGATTGAC -AATA 647
Qy 240 TCTTGATCCGTCCTTTTTTCAACATCGGATTCATTTGGTTTTCAAATTTTCAACTCCTTCAT 299
Db 648 TCTTGATC -GTCCCTTTTTTCAACATCGGATTCATTTGGTTTTCAAATTTTCAACTCCTTCAT 705
Qy 300 GATGGTGATCTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAAGAAAGA 359
Db 706 GATGGTGATCTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAAGAAAGA 765
Qy 360 TTATGCTCGGTACAGTAAAGAGAAAGATGATGATGATGATGATGATGATGATGATGATGATGA 419
Db 766 TTATGCTCGGTACAGTAAAGAGAAAGATGATGATGATGATGATGATGATGATGATGATGATGA 825
Qy 420 ATATGGATGAAACAGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 479
Db 826 ATATGGATGAAACAGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 885
Qy 480 TTCTCTCTGATGGTTCTGATGTCAGATGATGATGATGATGATGATGATGATGATGATGATGAT 539
Db 886 TTCTCTCTGATGGTTCTGATGTCAGATGATGATGATGATGATGATGATGATGATGATGATGAT 945
Qy 540 TGCAATGATAGAAGATTTATATCTAGAGAGGATCAATGCTCAGTACAGCCATATTGTT 599
Db 946 TGCAATGATAGAAGATTTATATCTAGAGAGGATCAATGCTCAGTACAGCCATATTGTT 1005
Qy 600 CTATGCTGCTACGTCCTCAGTGAATGTTATTTTGGAGGAAGTCTGTATGCTAGACAAG 659
Db 1006 CTATGCTGCTACGTCCTCAGTGAATGTTATTTTGGAGGAAGTCTGTATGCTAGACAAG 1065
Qy 660 AGGAAGAGATGGAATAAAGCAGATGTTTATTTGGGGCAATTCCTTATCCAGCTATGTTGTG 719
Db 1066 AGGAAGAGATGGAATAAAGCAGATGTTTATTTGGGGCAATTCCTTATCCAGCTATG -GGT 1123
Qy 720 TGGCACTGCCCTCTTCATCAATTTTCAATGATGATTTTACCAATGCTTCAAGAGCCATTC 779
Db 1124 TGGCACTGCCCTCTTCATCAATTTTCAATGATGATTTTACCAATGCTTCAAGAGCCATTC 1183
Qy 780 TTTTGGAAACATGGTGGCGGTTTGTGCACTCTGTTTTTTTGTATTTCTTCTCTCAATCT 839
Db 1184 TTTTGGAAACATGGTGGCGGTTTGTGCACTCTGTTTTTTTGTATTTCTTCTCTCAATCT 1243
Qy 840 TGTGGTACAACTCTGGCCGAAATCTGTGAGGTGAGCCCAACTTTCTCTTGTGCTGTCAA 899
Db 1244 TGTGGTACAACTCTGGCCGAAATCTGTGAGGTGAGCCCAACTTTCTCTTGTGCTGTCAA 1303
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Qy 900 TGCTGTGCTCGTCTCTATACCGGAGAAAAAATGGTTATGAGAGCTGCGGTTATTGTTTG 959
Db 1304 TGCTGTGCTCGTCTCTATACCGGAGAAAAAATGGTTATGAGAG -CTGCGGTTATTGTTTG 1362
Qy 960 CCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATGAAAATGATTTTCACTTCCACGTC 1019
Db 1363 CCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATGAAAATGATTTTCACTTCCACGTC 1422
Qy 1020 TTTCTGGGCATATAAGATCTATTATGCTATGGCTTCATGATGCTGCTGCTGCTGCTTATCCT 1079
Db 1423 TTTCTGGGCATATAAGATCTATTATGCTATGGCTTCATGATGCTGCTGCTGCTGCTTATCCT 1482
Qy 1080 GTGCATTTGTGACTGCTGTGACATTTTGTGACATATTTTCTACTAAATGCGAGAGA 1139
Db 1483 GTGCATTTGTGACTGCTGTGACATTTTGTGACATATTTTCTACTAAATGCGAGAGA 1542
Qy 1140 TTACCGGTGGCAATGGCAACAAGTTTCTCTGCTGCTGATCAACTGCAATCTATGTTTACAT 1199
Db 1543 TTACCGGTGGCAATGGCAACAAGTTTCTCTGCTGCTGATCAACTGCAATCTATGTTTACAT 1602
Qy 1200 GTATTCCTTTTACTACTATTTTTCAAAACAAAGATGATGCTTATTTTCAAACATCAAT 1259
Db 1603 GTATTCCTTTTACTACTATTTTTCAAAACAAAGATGATGCTTATTTTCAAACATCAAT 1662
Qy 1260 TTACTTTGATATATGCGGTTATTTAGCACAGCCTTGGGATATGCTGCGAGCGATT 1317
Db 1663 TTACTTTGATATATGCGGTTATTTAGCACAGCCTTGGGATATGCTGCGAGCGATT 1720
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RESULT 8
US-10-062-674-1697
; Sequence 1697, Application US/10062674
; Publication No. US20040005559A1
; GENERAL INFORMATION:
; APPLICANT: Ioring, Jeanne F.; Kaser, Matthew R.
; TITLE OF INVENTION: MARKERS OF NEURONAL DIFFERENTIATION AND MORPHOGENESIS
; FILE REFERENCE: PA-0026-1 CIP
; CURRENT APPLICATION NUMBER: US/10/062,674
; CURRENT FILING DATE: 2002-01-30
; PRIOR APPLICATION NUMBER: US 09/625,102
; PRIOR FILING DATE: 2000-07-24
; NUMBER OF SEQ ID NOS: 2217
; SOFTWARE: PERL Program
; SEQ ID NO 1697
; LENGTH: 6197
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. US20040005559A1 233927.4
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)
; OTHER INFORMATION: a, t, c, g, or other
US-10-062-674-1697
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Query Match          53.9%; Score 709.6; DB 16; Length 6197;
Best Local Similarity 82.4%; Pred. No. 6.3e-165;
Matches 1135; Conservative 0; Mismatches 165; Indels 77; Gaps 25;

Qy 15 TTTACCAATATGGGTTATGTTGGTGGCTGATGAAATG -GAGAAATTAATGAAATGCTTCTT 73
Db 388 TTACCCNATATGGGTTATGTTGGTGGCTGATGAAATGCGAAGATTAATGCTTCTTCT 447
Qy 74 GGACC -TATAAAAAATTTGAAAT -AGGTTTAAATGAAATCGAATTTGT -TG 121
Db 448 TGGACCGTATATAAAATCTTGAATTAGGTTTAACTGGAATCGAAGTTGTTGTTATGTT 507
Qy 122 ATGTTAACTTAAGTGAAGAAAGGTGAACTGGTTCGAAATCTGTTTCCAAATCTAAATCCAGATGT 181
Db 508 ATATCTAACTAGTGAAGAAAGAGTGAACATGGTTCCAAATCTAAATCTAAATCCAGATGT 567
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; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2.2
; SEQ ID NO 2630
; LENGTH: 560
; TYPE: DNA
; ORGANISM: Human
; US-10-085-783A-2630

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Query Match	40.8%;	Score 537.4;	DB 16;	Length 560;
Best Local Similarity	99.6%;	Pred. No. 8.9e-123;		
Matches 549;	Conservative 0;	Mismatches 1;	Indels 1;	Gaps 1;
QY	768	AAGAGCCATTCCTTTTGGAAACAATGGTGGCGGTTGTTCGATCTGTTTTTTTGGTATTCT	827	
DB	1	AAGAGCCATTCCTTTTGGAAACAATGGTGGCGGTTGTTCGATCTGTTTTTTTGGTATTCT	60	
QY	828	TCTCTAAATCTGTTGGTACAAATACATCTGTCGCGAAATCTGTACGTCAGCCCAACTTCC	887	
DB	61	TCTCTAAATCTGTTGGTACAAATACATCTGTCGCGAAATCTGTACGTCAGCCCAACTTCC	121	
QY	888	TTGTGCTGTCAATGCTGTGCCTCGTCTCTATACCGGAGAAAAATGGTTCATGGAGCCTGC	947	
DB	121	TTGTGCTGTCAATGCTGTGCCTCGTCTCTATACCGGAGAAAAATGGTTCATGGAGCCTGC	180	
QY	948	GGTTATCTGTTGCGTGGTGGAATTTTACCTTTTGGTCAACTCTTTATTGAAATGTAATTT	1007	
DB	181	GGTTATCTGTTGCGTGGTGGAATTTTACCTTTTGGTCAACTCTTTATTGAAATGTAATTT	240	
QY	1008	CATCTTCACGCTTTCTGGGCATATAAGATCTATTATGCTATAGGCTTCATGATCGTGGT	1067	
DB	241	CATCTTCACGCTTTCTGGGCATATAAGATCTATTATGCTATAGGCTTCATGATCGTGGT	300	
QY	1068	GCTGGTTATCTGTGTCATTGTGACTGCTGTGTGACTATTGTGTGCACATATTTTCTACT	1127	
DB	301	GCTGGTTATCTGTGTCATTGTGACTGCTGTGTGACTATTGTGTGCACATATTTTCTACT	360	
QY	1128	AAATCGAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGTGCATCACTGCGAAT	1187	
DB	361	AAATCGAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGTGCATCACTGCGAAT	420	
QY	1188	CTATGTTTACATGTATTCCTTTTACTACTATTTTTCAAAACAAAAGATGTATGGCTTATT	1247	
DB	421	CTATGTTTACATGTATTCCTTTTACTACTATTTTTCAAAACAAAAGATGTATGGCTTATT	480	
QY	1248	TCAACATCATTTTACTTTTGATATATGGCGGTATTATTAGCAGAGCCTT--GGGGATATGT	1306	
DB	481	TCAACATCATTTTACTTTTGATATATGGCGGTATTATTAGCAGAGCCTTGGGGATATGT	540	
QY	1307	GTGGAGCGAATT	1317	
DB	541	GTGGAGCGAAT	551	

RESULT 12

US-10-437-963-39405
; Sequence 39405, Application US/10437963
; Publication No. US20040123343A1

PUBLICATION NO: US20040123543A1
 GENERAL INFORMATION:
 APPLICANT: La Rosa, Thomas J.
 APPLICANT: Kovalic, David K.
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 APPLICANT: Wu, Wei
 APPLICANT: Boukharov, Andrey A.
 APPLICANT: Barbazuk, Brad
 APPLICANT: Li, Ping
 TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
 TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 38-21(53221)B
 CURRENT APPLICATION NUMBER: US/10/437,963
 CURRENT FILING DATE: 2003-05-14
 NUMBER OF SEQ ID NOS: 204966

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; SEQ ID NC 39405
;
; LENGTH: 1899
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
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; OTHER INFORMATION: Clone ID: PAT_MRT4530_42949C.1
US-10-437-963-19405

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Query Match	37.9%;	Score 499;	DB 17;	Length 1899;
Best Local Similarity	62.3%;	Pred. No. 5.6e-113;		
Matches 819;	Conservative 0;	Mismatches 490;	Indels 6;	Gaps 2;
Qy	2	TGTACATAGATGATTACCAATATGGGCTATTGTTGGTGAGGCTGATCAAAATGGAGAAG	61	
Db	437	TCCTCATGTGATTTGCCTCTATGGGTTTTGTTGGAGGCGACAGAAATAGCGATA	496	
Qy	62	ATTACTATP-----CTTTGGACCTATAAAAACTTGAATAGGTTTTTAATGGAATCGAATTG	118	
Db	497	ACAAATATTTCCTTTTCACTCAAGAACAATCGTCATCAGATACAATGGCAATCAGATT	556	
Qy	119	TTGATGTTAATCAACTAGTGAAGGAAGGTGAAACCTGGTTCCAAATACTAAAAATCCAGA	178	
Db	557	TTCAATGTTAATCTACTCAAGAAAGTCCAAGCTTATGATCGGGTAGGCATTTGGATA	616	
Qy	179	TGTCATATTCACTAAATGAAAAAGTCAGATGTGAAATTTGAAGATTCGATTTGACAAAT	238	
Db	617	TGACATATTCTGTCAAGTGGGAACCAACCAATGTAACTTTGTGTACCGCTTTGATGAT	676	
Qy	239	ATCTTGATCCGTCCTTTTTCACATCCGGAATTCATTGGTTTTCGAATTTTCAACTTCCTTCA	298	
Db	677	ACCTTGACTACCTTCTTTGAACACAGATCAATGGTTCTCAATCTTCAATCTTTTCA	736	
Qy	299	TGATGTTGATCTCTTTGGTGGGTTAGTTTCAATGATTTTAATGAGAAACATTAAGAAAAG	358	
Db	737	TGATGGTTATCTTTCTCACTGGGCTAGTGTCAATGATTTTGATGGCGACCTCTAAGAAATG	796	
Qy	359	ATTATGCTCCGTA--CAGTAAGAGAGAAATGGATGATGCGATAGAGACCTACGAG	415	
Db	797	ACTATGCAAAAGTATGCCCGGACGATGATGATCTTGAACCTTGGAAGAAGATGTCAAGT	856	
Qy	416	ATGAATATGGATGGAAACAGGTGCATGGAGATGATTTAGACCAATCAAGTCAACCACTGA	475	
Db	857	AAGAACTGGATGGAAGCTTGTCCATGGGATGTTTTCCGGCCCTCTCCGAGATTTGGCTC	916	
Qy	476	TATTTTCTCTCTGATTTGGTCTGGATGTCAGATATTGCTGTCTCTCATCGTTATTA	535	
Db	917	TTCTTTTACGCCCTTGTGGTGGGCACAGTTGCTGCTCTTATTCTGCTAGTGAATT	976	
Qy	536	TTGTGCAATATAGAAGATTATATCTCAGAGGGGATCAATGCTCAGTACAGCCATAT	595	
Db	977	TGTTGGCAATATCGGAATGCTGTATTGGCGAGGAGCTATTGTCAACAATTCATTG	1036	
Qy	596	TTGCTATGTCTGCTACGCTCCAGTGAATGGTTATTTTGGAGGAGTCTGTATGCTAGAC	655	
Db	1037	TTTGTATTGCCCTTACTTCAATCATCTCGATATGTCAGTGGTGCACTTTTATCACGGC	1096	
Qy	656	AAGAGAGAAAGAGATGGATAAGCAGATGTTATTGGGGCATTCCTTTATCCCACTATGG	715	
Db	1097	ATGGGGGAAAACCTGGATCAAGGCAATGATTATGACAGCATCACTATTTCCGTTTATGT	1156	
Qy	716	TGTGTGGCACTGCTTCTTCATCAATTTCATAGCCATTATTACCATGCTTCAAGAGCCA	775	
Db	1157	GCATTGGAAATGGCCCTAGTGCCTTAACACAATCGCTATTCTATCGATCAATTAGCTGCCA	1216	
Qy	776	TTCCCTTTTGAACAATAGTGGCCGTTGTTGCACTCTGTTTTTTTGTATTCTTCCCTCTAA	835	
Db	1217	TACCAATTTGTAATACTATGGTGTGTTTCATCTGTGGGCGCTTCATATCTTCCCTCTTG	1276	
Qy	836	ATCTTGTGTGTAACAATCTTTGGCCGAAATCTGTCAAGTCAAGCCCACTTTCCCTTGTGCTG	895	
Db	1277	CTCTTTTGGAACTGTTGTTGGTAGAACTGGAGTGGTGGCCCAATAATATCCATTCGAGAG	1336	
Qy	896	TCAATGCTGTGCCCTCTTATATCCGGAGAAAAAATGGTTTCATGGAGCCCTGGGTTATTG	955	


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1119 TTTTCTACTAAATCAGAGATTACCGGTGGCAATGGACAAAGTTTCTCTCTGCTGCATC 1178
Db
319 TTTTCTACTAAATCAGAGATTACAGGTGGCAATGGACAAAGTTTCTCTCTGCTGCATC 378
Qy
1179 AACTGCAATCTATGTTTACATGTAATCTCTTTTACTACTATTTTTCAAAACAAGATGTA 1238
Db
379 AACTGCAATCTATGTTTACATGTAATCTCTTTTACTACTATTTTTCAAAACAAGATGTA 438
Qy
1239 TGGCTTTATTTCAACATCATTTTACTTTGGATATATGCGGTATTTAGCACACGCTTGGG 1298
Db
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1299 GATAATGTGTGGAGCGATT 1317
Db
499 GATAATGTGTGGAGCGATT 517

RESULT 15
US-10-425-114-26742
; Sequence 26742, Application US/10425114
; Publication No. US20040034889A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 26742
; LENGTH: 2039
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB4573-008-E4_FLI
US-10-425-114-26742

Query Match 37, 38; Score 491.6; DB 16; Length 2039;
Best Local Similarity 61.88; Pred. No. 4e-111;
Matches 817; Conservative 0; Mismatches 499; Indels 6; Gaps 2;

Qy 2 TGTACATAGATGATTTTACCAATATGGGTAATGTTGTTGGTGGCTGTATGAA---AATGGAG 58
Db 352 TTTTTCATAGATGATCTGCCATTTGGGGTTTGTGGGGAGACTGACAAAAACAATGAGA 411
Qy 59 AAGATTACTACTTTGGACCTATAAAAACTTGAATAGCTTTTAAATGGAAATCGAATTC 118
Db 412 AAAAGCACTACTTTTACCTCACAGAACATTTGTTTAAATACAATGGTAAACAGATAA 471
Qy 119 TTGATGTTAATCTAACTAGTGAAGAAAGGTGAACTGGTTCCAAATCTATAAATCCAGA 178
Db 472 TTCAATGGAATCTAACACAGAGTCACTAAGCTTTCTTGAAGCTGGCAAAAAGTTGGATA 531
Qy 179 TGTCAATATCAGTAAATGMAAAGTCAAGATGTAATTTGAAGTCGATTTTGAACAAT 238
Db 532 TGACTTATTCAGTGAAGTGGGTGMAAACAATTTGGCAATTTGACCGCGCTTTGAGGTTT 591
Qy 239 ATCTTGATCCGCTCTTTTCAACATCCGATTCATTTGGTTTTCAAATTTTCAACTCCCTTCA 298
Db 592 ACTTAGACTACCGCTTTTTCACACACAGATTCATTTGGTTCTCACTTCAATTCATTC 651
Qy 299 TGATGGTCACTCTTCTGGGGCTTATGTTCAATGATTTTAAATGAGAACATTAAGAAAAG 358
Db 652 TGATGGTCACTCTTCTGGGGCTTATGTTCAATGATTTTAAATGAGAACATTAAGAAAAG 711
Qy 359 ATTATGCTCGTA---CAGTAAAGAGAGAAATGGATGATATGATGATAGACCTAGGAG 415
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Db 712 ATTATGCAAAATATGCTCGTGAAGATGATGATCTGGAATCACTTTGAGCGAGATGTTAATG 771
Qy 416 ATGAATATGATGGAACAGGTGCAATGAGATGATTTATGACCAATCAAGTCAACCCACTGA 475
Db 772 AAGAATCGGGTGGAAAGCTTCCATGATGATGTTCCGGCCCTCTCGTGGCAGGTGT 831
Qy 476 TATTTTCTCTCTCTGATGTTGTTCTGGATGTCAGATATTTGCTGTCATCAGCTATTA 535
Db 832 TTTCTTCTGCCCCCTAGTTGGTATGGCACTCAGCTGGCGCTCTTATCCCTGCTGTGATTG 891
Qy 536 TTGTTGCAATGATAGAAATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATAT 595
Db 892 TTTTGGCCATTTGTTCAATGTTATGTTGGCGAGGGGCTATCATCAACACCTTCATG 951
Qy 596 TTGCTATGCTGCTACGTTCCAGTGAATGTTATTTTGGAGGAGTCTGTATGCTAGAC 655
Db 952 TGTGCTACGCTCTTACATCTTCTCATCTCTGGATATGTTAGTGGTGTCTCTATTCAAGGA 1011
Qy 656 AAGAGGAGAGAGATGATAGAAAGCAGATGTTTATTTGGGGCAATCTTATCCAGCTATGG 715
Db 1012 ATGTTGGAAAAAACTGGATAAAGCTATGATCCTTACAGCATCACTTTTCCATCTTGT 1071
Qy 716 TGTGTCGACCTGCCCTTCTTCTCATCAATTTTATAGCAATTTATAGCATGCTTCAAGAGCA 775
Db 1072 GTTCTCGATTTGGATTTGTTTAAACATATGCTATCTTCTACCGATCATTAGCAGTA 1131
Qy 776 TTCTTTTGGAAACAATGTTGGCGGTTTGTGCACTGTTTGTGTTTATTTCTCTCTAA 835
Db 1132 TACCATTTTGGCACAATGTTGTCATGTTTATCTTTGGGCTTTTCTCTCCCTCCGTTGG 1191
Qy 836 ATCTTTTGTGTACAACTACTGTCGCGAAATCTGTCAGGTGACGCCCAACTTTCTTGTCTG 895
Db 1192 TTCTATTCGGGACTGTTAGTTGTTAGAAATTCGAGTGGTCTCCCAACACCCGTTGCTG 1251
Qy 896 TCAATGCTGTGCTGCTCTATACCGGAGAAAAATGTTTCATGAGCCTCGGTTATTG 955
Db 1252 TGAATAACGATCCCGCGCCCAATTCCTGAAAAAGAGTGTACCTTACACCTTCTGTATT 1311
Qy 956 TTGCTCGGTGGAAATTTTACCTTTTGGTTCAATCTTTTAAATGTTTATTTCTTCA 1015
Db 1312 CACTGATGGTGGACTTCTCCCTTGGCAGCATCTTCAITGAGATGACTTCCGATTTCA 1371
Qy 1016 CCTCTTTCTGGGCAATATAAGATCTATTATGCTATGCTTCAATGATGCTGCTGTTA 1075
Db 1372 CTTCCTTCTGGAACACTACAAGGTGACTACGCTATGTTTTCATGTTGCTGGTTTGTCA 1431
Qy 1076 TCCTGTGCAATGTGACTGTCTGTGACTATTTGTGTCACATATTTTCTACTAAATGAG 1135
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Qy 1136 AAGATTACCGTGGCAATGGACAAGTTTCTCTCTGTCATCAACTGCAATCTATGTTT 1195
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Qy 1196 ACATGATATCTTTTACTACTATTTTTCAAAACAAGATGATGGCTTATTTCAAACAT 1255
Db 1552 ATCTATACTCTATATACTATTTATCATGTGAAGACAAAGATGTCAGGATTTTTCAGACAA 1611
Qy 1256 CATTTTACTTTGGATATATGCGGTATTTAGCACAGCCTTGGGATATGTTGTCGAGCGA 1315
Db 1612 GCTTCTACTTTGGTTACACCTTGAATGTTCTGTTGGATGGGAATACTTTGCGGTGCTG 1671
Qy 1316 TT 1317
Db 1672 TT 1673
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Job time : 1091.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 17, 2004, 17:17:22 ; Search time 82.6099 Seconds
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Perfect score: 2347

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1570615 seqs, 354127592 residues

Total number of hits satisfying chosen parameters: 1570615

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
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- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2340	99.7	545	10	US-09-374-046A-26
2	2340	99.7	545	15	US-10-616-263-26
3	1543	65.7	530	14	US-10-205-219-121
4	1437	61.2	596	17	US-10-425-115-325471
5	1436	61.2	576	15	US-10-425-114-66140
6	1435	61.1	552	17	US-10-425-115-286624
7	1430	60.9	594	16	US-10-767-701-44284
8	1428.5	60.9	595	17	US-10-425-115-325582
9	1424	60.7	617	16	US-10-437-963-141888
10	1412	60.2	596	16	US-10-437-963-116913
11	1411	60.1	595	17	US-10-739-930-9909
12	1278.5	54.5	424	16	US-10-437-963-103141
13	1158	49.3	500	17	US-10-425-115-206340

14	915.5	39.0	341	15	US-10-424-599-246293	Sequence 246293,
15	911.5	38.8	692	17	US-10-425-115-202293	Sequence 202293,
16	910.5	38.8	627	15	US-10-425-114-42573	Sequence 42573, A
17	907.5	38.7	595	16	US-10-767-701-45514	Sequence 45514, A
18	906	38.6	624	15	US-10-425-114-45661	Sequence 45661, A
19	906	38.6	647	15	US-10-424-599-204944	Sequence 204944,
20	905.5	38.6	589	17	US-10-425-115-359244	Sequence 359244,
21	903	38.5	645	17	US-10-739-930-11074	Sequence 11074, A
22	902.5	38.5	623	15	US-10-425-114-62405	Sequence 62405, A
23	901.5	38.4	592	15	US-10-424-599-174369	Sequence 174369,
24	900.5	38.4	594	17	US-10-739-930-11084	Sequence 11084, A
25	887	37.8	627	16	US-10-437-963-120941	Sequence 120941,
26	852.5	36.3	559	17	US-10-739-930-10304	Sequence 10304, A
27	851.5	36.3	893	16	US-10-437-963-177000	Sequence 54, Appl
28	842.5	35.9	625	14	US-10-394-136-54	Sequence 1, Appl
29	842.5	35.9	642	14	US-10-201-964-1	Sequence 165390,
30	818	34.9	820	16	US-10-437-963-165390	Sequence 2819, Ap
31	812	34.6	218	15	US-10-264-237-2819	Sequence 206342, A
32	799	34.0	253	17	US-10-425-115-206342	Sequence 195511,
33	786	33.5	237	15	US-10-425-114-37646	Sequence 37646, A
34	782	33.3	513	15	US-10-424-599-195511	Sequence 195511,
35	772.5	32.9	642	16	US-10-437-963-105528	Sequence 105528, A
36	763.5	32.5	670	17	US-10-739-930-10578	Sequence 193953,
37	758	32.3	639	17	US-10-425-115-193953	Sequence 218357,
38	757	32.3	637	15	US-10-424-599-218357	Sequence 194452,
39	754	32.1	639	17	US-10-425-115-194452	Sequence 194454,
40	752	32.0	639	17	US-10-425-115-194454	Sequence 136356,
41	750.5	32.0	646	16	US-10-437-963-136356	Sequence 135,
42	750	32.0	151	14	US-10-002-631C-135	Sequence 2, Appl
43	746.5	31.8	663	14	US-10-394-136-2	Sequence 128436,
44	744	31.7	659	16	US-10-437-963-128426	Sequence 197142,
45	743	31.7	637	15	US-10-424-599-197142	

ALIGNMENTS

RESULT 1

US-09-374-046A-26
; Sequence 26, Application US/09374046A
; Publication NO. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: Lavallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Acostino, Michael J.
; APPLICANT: Steinger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fectel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6075-83A
; CURRENT APPLICATION NUMBER: US/09/374,046A
; CURRENT FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-374-046A-26

Query Match 99.7%; Score 2340; DB 10; Length 545;
Best Local Similarity 99.8%; Pred. No. 2.1e-219;
Matches 438; Conservative 1; Indels 0; Gaps 0;

QY 1 MWIDLPINGIVEADNGEDYILWYKLEIGFNGNRIVDNLISGKVKLVPTKQM 60

Db 88 MYIDDLPIGWIGVGEADENGEDYILWTYKLEIGFNGRIVDVNLTSBGKVLVPTNKIQM 147
QY 61 SYSVKWKKSDVKFEDRDKYLDPSFFQHRHWFSPFNSFMVIFLVGLVSMILMRLTKD 120
Db 148 SYSVKWKKSDVKFEDRDKYLDPSFFQHRHWFSPFNSFMVIFLVGLVSMILMRLTKD 207
QY 121 YARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLGSCQIFAVSLIIV 180
Db 208 YARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLGSCQIFAVSLIIV 267
QY 181 AMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGRRWIKOMFICAFILIPAMVC 240
Db 268 AMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGRRWIKOMFICAFILIPAMVC 327
QY 241 GTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVN 300
Db 328 GTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVN 387
QY 301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEFYFTSFWAYKIYVYVGFMMVLVLIL 360
Db 388 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEFYFTSFWAYKIYVYVGFMMVLVLIL 447
QY 361 CIVTVCVTIVCTYFLNADRYRWQMTSFLSAASTAIYVYMYSFYYPFKTKMYGLFQTSF 420
Db 448 CIVTVCVTIVCTYFLNADRYRWQMTSFLSAASTAIYVYMYSFYYPFKTKMYGLFQTSF 507
QY 421 YFGYMAVFPSTALGIMCGAI 439
Db 508 YFGYMAVFPSTALGIMCGAI 526

RESULT 2

US-10-616-263-26
; Sequence 26, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Metberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steiningger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fectel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000103.5
; CURRENT APPLICATION NUMBER: US/10/616,263
; CURRENT FILING DATE: 2003-07-08
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-616-263-26

Query Match 99.7%; Score 2340; DB 15; Length 545;
Best Local Similarity 99.8%; Pred. No. 2.1e-219;
Matches 438; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYIDDLPIGWIGVGEADENGEDYILWTYKLEIGFNGRIVDVNLTSBGKVLVPTNKIQM 60
Db 88 MYIDDLPIGWIGVGEADENGEDYILWTYKLEIGFNGRIVDVNLTSBGKVLVPTNKIQM 147
QY 61 SYSVKWKKSDVKFEDRDKYLDPSFFQHRHWFSPFNSFMVIFLVGLVSMILMRLTKD 120

Db 148 SYSVKWKKSDVKFEDRDKYLDPSFFQHRHWFSPFNSFMVIFLVGLVSMILMRLTKD 207
QY 121 YARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLGSCQIFAVSLIIV 180
Db 208 YARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLGSCQIFAVSLIIV 267
QY 181 AMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGRRWIKOMFICAFILIPAMVC 240
Db 268 AMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGRRWIKOMFICAFILIPAMVC 327
QY 241 GTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVN 300
Db 328 GTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVN 387
QY 301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEFYFTSFWAYKIYVYVGFMMVLVLIL 360
Db 388 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEFYFTSFWAYKIYVYVGFMMVLVLIL 447
QY 361 CIVTVCVTIVCTYFLNADRYRWQMTSFLSAASTAIYVYMYSFYYPFKTKMYGLFQTSF 420
Db 448 CIVTVCVTIVCTYFLNADRYRWQMTSFLSAASTAIYVYMYSFYYPFKTKMYGLFQTSF 507
QY 421 YFGYMAVFPSTALGIMCGAI 439
Db 508 YFGYMAVFPSTALGIMCGAI 526

RESULT 3

US-10-205-219-121
; Sequence 121, Application US/10205219
; Publication No. US20030138803A1
; GENERAL INFORMATION:
; APPLICANT: Warner-Lambert Company
; APPLICANT: Lee, Kevin
; APPLICANT: Dixon, Alistair
; APPLICANT: Brooksbank, Robert
; APPLICANT: Pinnoch, Robert
; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain
; FILE REFERENCE: WL-A-018200
; CURRENT APPLICATION NUMBER: US/10/205,219
; CURRENT FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: GB 0118354.0
; PRIOR FILING DATE: 2001-07-27
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 121
; LENGTH: 530
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: BP70-P-iso
US-10-205-219-121

Query Match 65.7%; Score 1543; DB 14; Length 530;
Best Local Similarity 75.5%; Pred. No. 1.4e-141;
Matches 318; Conservative 12; Mismatches 51; Indels 40; Gaps 7;

QY 1 MYIDDLPIGWIGVGEADENGEDYILWTYKLEIGFNGRIVDVNLTSBGKVLVPTNK 57
Db 131 MYIDDLPIGWIGVGEADENGEDYILWTYKLEIGFNGRIVDVNLTSBGKVLVPTNK 190
QY 58 IOMSVSVKWKSDVKFEDRDKYLDPSFFQHRHWFSPFNSFMVIFLVGLVSMILMRLTKD 117
Db 191 VIFS---KMEKSDVKFEDRDNIL-IVLFSHRIHWFIFNSFMVIFLVGLVSMILMRLTKD 246
QY 118 RKDYARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLGSCQIFAVSLIIV 177
Db 247 RKDYARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLGSCQIFAVSLIIV 306
QY 178 IIVAMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGRRWIKOMFICAFILIPA 237
Db 307 IIVAMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGRRWIKOMFICAFILIPA 366


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QY 238 MCGTAAFFINFAIYHASRAIPFGTMAVCCICFFVILPLNLVGTILGNLSGQPNFPC 297
Db 367 M-----GVHCLLHQFH-SHLLP-----CFKSHSFNNNGRLLHLFFCYSSKSC 409
QY 298 RVNAVPRPIPE-----KKWMEPAVIVCLGGLPFGSIFIEMYFIFTSF 341
Db 410 WYNTWPKSVRSQAQLSLSCQCCASSYTGKMWGHGAIVIVCLGGLPFGSIFIEMYFIFTSF 469
QY 342 WAKYIYVYVGFMMVLVILCIVTVCTVITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMY 401
Db 470 WAKYIYVYVGFMMVLVILCIVTVCTVITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMY 529
QY 402 S 402
Db 530 S 530

RESULT 4
US-10-425-115-325471
; Sequence 325471, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 325471
; LENGTH: 596
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_598c.1.pap
US-10-425-115-325471

Query Match 61.2%; Score 1437; DB 17; Length 596;
Best Local Similarity 59.5%; Pred. No. 3.5e-131;
Matches 262; Conservative 74; Mismatches 102; Indels 2; Gaps 2;

QY 2 YIDDLPIWIGVEADENGED-YILWTYKLEIGFNGNRIVDNLTSKGKVLVPNTKIQM 60
Db 138 FIDDLPLWGFVGEDSKNSKNHLYTHKNILVKYNDNRHIVNLTSQSPKLLDGGKLE 197
QY 61 SYSVKKKSDYKPEDREDKYLDPSPFOHRIHWFSIFNSFMWVIFLGLVSMILMRLTKD 120
Db 198 TYSVKWATDVSFARFEVLDYDFPEHQHWFSEFNSFMWVIFLGLVSMILMRLTNRD 257
QY 121 YARYSKE-EEMDDMDRLDGEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLI 179
Db 258 YAKYAREDDDLSELRDNEESGKLVHGDVFRPSPRLMFLSALVIGTQLAALLIV 317
QY 180 VAMIEDLYTERGSMSTAFVYAATSPVNGYFGSLYARQGRWIKQMFAGFLIPAMV 239
Db 318 LAIVGMVLYVGRGAIITTFIVCYALTSTISGVSGGLYSRGGKWKIKAMILTASLFPFLC 377
QY 240 CGTAAFFINFAIYHASRAIPFGTMAVCCICFFVILPLNLVGTILGNLSGQPNFPCV 299
Db 378 PSIGFMLNTIAIFVRSAAIPFGTMAVFLWAFISFPLVLLGTIVGWNWSGAPNPCR 437
QY 300 NAVPRPIPEKKWMEPAVIVCLGGLPFGSIFIEMYFIFTSFWMAYKIYVYVGFMMVLV 359
Db 438 KTIPIRPIPEKKWYLTSPVISLMGGLPFGSIFIEMYFVFTSFWMYKIVYVYVGFMLLVF 497
QY 360 LCIVTVCTVITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMYFFFTKMYGLFQTS 419
Db 498 LLIVTVCTVITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMYFFFTKMYGLFQTS 557
QY 420 FYFGYMAVFSTALGIMCGAI 439

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Db 558 FYFGYTMFLCLGLGLOCAI 577

RESULT 5
US-10-425-114-66140
; Sequence 66140, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingsong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 66140
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB4573-008-E4_FLI.pap
US-10-425-114-66140

Query Match 61.2%; Score 1436; DB 15; Length 576;
Best Local Similarity 59.2%; Pred. No. 4.2e-131;
Matches 261; Conservative 74; Mismatches 104; Indels 2; Gaps 2;

QY 1 MYIDDLPIWIGVEADENGED-DYILWTYKLEIGFNGNRIVDNLTSKGKVLVPNTKIQ 59
Db 117 LFIDDLPLWGFVGETDKNEKHYLYTHKNIVKYNRNRIHVNLTQSPKLLDGGKLLD 176
QY 60 MSYSVKKKSDYKPEDREDKYLDPSPFOHRIHWFSIFNSFMWVIFLGLVSMILMRLTK 119
Db 177 MTYSVKWQVTVAFARFEVLDYDFPEHQHWFSEFNSFMWVIFLGLVSMILMRLTNR 236
QY 120 DYARYSKE-EEMDDMDRLDGEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLI 178
Db 237 DYAKYAREDDDLSELRDNEESGKLVHGDVFRPSPRGVFLSALVIGTQLAALLIV 296
QY 179 VAMIEDLYTERGSMSTAFVYAATSPVNGYFGSLYARQGRWIKQMFAGFLIPAM 238
Db 297 VLAIVVMVLYVGRGAIITTFIVCYALTSTISGVSGGLYSRGGKWKIKAMILTASLFPFL 356
QY 239 VCGTAAFFINFAIYHASRAIPFGTMAVCCICFFVILPLNLVGTILGNLSGQPNFPC 298
Db 357 CFSIGLLMNTIAIFVRSAAIPFGTMAVFLWAFISFPLVLLGTIVGWNWSGAPNPCR 416
QY 299 VNAVPRPIPEKKWMEPAVIVCLGGLPFGSIFIEMYFIFTSFWMAYKIYVYVGFMMVLV 358
Db 417 VKTIPIRPIPEKKWYLTSPVISLMGGLPFGSIFIEMYFVFTSFWMYKIVYVYVGFMLLVF 476
QY 359 LCIVTVCTVITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMYFFFTKMYGLFQTS 418
Db 477 LLIVTVCTVITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMYFFFTKMYGLFQTS 536
QY 419 SFYFGYMAVFSTALGIMCGAI 439
Db 537 SFYFGYTMFLCLGLGLOCAI 577

RESULT 6
US-10-425-115-286624
; Sequence 286624, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.

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; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 286624
; LENGTH: 552
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_24498C.1.pap
US-10-425-115-286624

Query Match      61.1%; Score 1435; DB 17; Length 552;
Best Local Similarity 59.0%; Pred. No. 5e-131;
Matches 260; Conservative 75; Mismatches 104; Indels 2; Gaps 2;

QY 1 MYIDLPINGVGEADENG-YYLWTKKLEIGFNGNRIVDVNLTSEGVKLVPTKIQ 59
DB 93 LFIDLPWVGFGVETDKNEKKHLYTHKNLVXYNDNRHVNLTQESPKLEAGKLD 152
QY 60 MSYSVKKKSDVKFEDRFDKYLDPSPFHRIHWFSPFNSFMVIFLVGLVSMILMRTLR 119
DB 153 MTYSVKWQTVAFARRFEVLDYPPFHHQIHWFSIFNSFMVIFLVGLVSMILMRTLR 212
QY 120 DYARYSKE-EEEMDDMDRLGDEYQWGVHGVDPFPPSSHPILFSLGSGCOIFAVSLIVI 178
DB 213 DYAKYAREDDLESLEDRDYNESGKLVHGVDPFPPSGVFLSALVIGIGTQLAALLV 272
QY 179 IVAMIEDLYTERGSMSTAIFFVAATSPVNGYFGGSLYARQGGRRWIKQFICAFILIPAM 238
DB 273 VLAIVWMLYVGRGAIITTFIVCYALTFSISGVYSGGLYSRGKKWIKAMILTASLFPFL 332
QY 239 VCGTAFINFTAIYHSAIRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNPCR 298
DB 333 CFSIGLLNLTAIYFSLAAIPFGTMVAVCCICFFVILPLNLVGTIVVGRNWSGAPNPCR 392
QY 299 VNAYPRPIPEKKWMEPAVIVCLGILPFGSIFPIEMFYFTSFWAYKIYVYVGFMMVLV 358
DB 393 VKTIPRIPEKKWLTSPVSLMGGLPFGSIFPIEMFYFTSFWAYKIYVYVGFMMVLV 452
QY 359 ILCITVTCVTIVCTYFLNADRYQWTSFLSAASTAIYVYVGFMMVLV 418
DB 453 ILIIVTICVTIVCTYFLNADRYQWTSFLSAASTAIYVYVGFMMVLV 512
QY 419 SFYGYMAVFTALGIMCGAI 439
DB 513 SFYGYTLMFCLGLGILCGAV 533

RESULT 7
US-10-767-701-44284
; Sequence 44284, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 44284
; LENGTH: 594
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; NAME/KEY: unsure

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; LOCATION: (1)..(594)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C12526_1.pap
US-10-767-701-44284

Query Match      60.9%; Score 1430; DB 16; Length 594;
Best Local Similarity 59.3%; Pred. No. 1.7e-130;
Matches 261; Conservative 74; Mismatches 103; Indels 2; Gaps 2;

QY 2 YIDDLPIWGIVGEADENG-YYLWTKKLEIGFNGNRIVDVNLTSEGVKLVPTKIQ 60
DB 136 FIDDLPLWVGFGVETDKNGENKHYLTHKNLVXYNDNRHVNLTQESPKLEDGKLE 195
QY 61 SYSVKKKSDVKFEDRFDKYLDPSPFHRIHWFSPFNSFMVIFLVGLVSMILMRTLR 120
DB 196 TYSVKWATDVSFARRFEVLDYPPFHHQIHWFSIFNSFMVIFLVGLVSMILMRTLR 255
QY 121 VARYSKE-EEEMDDMDRLGDEYQWGVHGVDPFPPSSHPILFSSLGSGCOIFAVSLIVI 179
DB 256 YAKYAREDDLESLEDRDYNESGKLVHGVDPFPPSRXVFLSALVIGIGTQLAALSRLV 315
QY 180 VAMIEDLYTERGSMSTAIFFVAATSPVNGYFGGSLYARQGGRRWIKQFICAFILIPAM 239
DB 316 LAIVGMLYVGRGAIITTFIVCYALTFSISGVYSGGLYSRGKKWIKAMILTASLFPFL 375
QY 240 CGTAFINFTAIYHSAIRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNPCR 299
DB 376 FSGIGLNTAIYFSLAAIPFGTMVAVCCICFFVILPLNLVGTIVVGRNWSGAPNPCR 435
QY 300 NAVPRPIPEKKWMEPAVIVCLGILPFGSIFPIEMFYFTSFWAYKIYVYVGFMMVLV 359
DB 436 KTIPIPEKKWLTSPVSLMGGLPFGSIFPIEMFYFTSFWAYKIYVYVGFMMVLV 495
QY 360 LCITVTCVTIVCTYFLNADRYQWTSFLSAASTAIYVYVGFMMVLV 419
DB 496 LLIVTICVTIVCTYFLNADRYQWTSFLSAASTAIYVYVGFMMVLV 555
QY 420 FYGYMAVFTALGIMCGAI 439
DB 556 FYGYTLMFCLGLGILCGAI 575

RESULT 8
US-10-425-115-325582
; Sequence 325582, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 325582
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(595)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_599C.1.pap
US-10-425-115-325582

Query Match      60.9%; Score 1428.5; DB 17; Length 595;
Best Local Similarity 59.4%; Pred. No. 2.4e-130;
Matches 262; Conservative 73; Mismatches 103; Indels 3; Gaps 3;

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Db 378 FAIGFVLNTIAIFRSLAAIPFGTMVMFVLWAFISPLVLLGTWGRNWSGAPNNPCRV 437
Qy 300 NAVPRPIPEKWFEPVAVICLGLPGSFIEMVFIETSFWAYKIYVYVGMMLVVI 359
Db 438 KTIPIPEKWKYITPSVISLIMGLLPFGSFIEMVFTSFYKYYVYVGMMLLVFI 497
Qy 360 LCIVTVCVTICTYFLLNAEDYRQWTSFLSAATAIYVMYSPFYFFKTKMYGLFQTS 419
Db 498 LLIVTICVTIVGTYFLLNAENYHQWTSFLSAATAIYVLYSIYVYVHKTKSGRPFQTS 557
Qy 420 FYFGMAVSTALGIMCGAI 439
Db 558 FYFGYTLMFCLGLGILCGAI 577

RESULT 11
US-10-739-930-9909
; Sequence 9909, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; FILE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9909
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Tricum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-C2111_1.p
US-10-739-930-9909

Query Match 60.1%; Score 1411; DB 17; Length 595;
Best Local Similarity 58.4%; Pred. No. 1.2e-128;
Matches 257; Conservative 74; Mismatches 107; Indels 2; Gaps 2;

Qy 2 YIDPLPINGIVEADENGED-YIWTYKKLEIGNGNRIVDVNLTSSGKVLKVPNTKIOM 60
Db 137 FIDDLPLMGFVGETDKNSKXHYLYTHKNILVKNYDNRRIHVNLTOSSPKLLDAGKNLDM 196
Qy 61 SYSVKKKSVDKPEDRDKYLDPSFFQHRHWFESIFNSFMNVIPLVGLVSMILMRTL-RKD 120
Db 197 TISAKWPTDVSFARRFEVLYDYPFEHQHWFESIFNSFMNVIPLVGLVSMILMRTL-RND 256
Qy 121 YARYSK-BEEMDDMDRLDGEYGHQVGDVFRPSSHPLIFSSLIGSGCOIFAVSLIVII 179
Db 257 YAKYARDDDDLESERDVNEESGKLVHGDVFRPPRLTLALSALVIGTQLAAILLVIV 316
Qy 180 VAMEDLYTERGSMSTAIYVAATSPVNGYFGSILYAROGGRWIKOMFIFALIPAMV 239
Db 317 LAIVGMLYVGRGAIITTFIVCYALTISFISVAGLSYRNGKRWIKAMILTATSLPFFLH 376
Qy 240 CGTAFFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRV 299
Db 377 FAIGFALNTIAIFGSLAIPFGTMVIFVLMWAFISPLVLLGTWGRNWSGAPNNPCRV 436
Qy 300 NAVPRPIPEKWFEPVAVICLGLPGSFIEMVFIETSFWAYKIYVYVGMMLVVI 359
Db 437 KTIPIPEKWKYITPSVISLIMGLLPFGSFIEMVFTSFYKYYVYVGMMLLVFI 496
Qy 360 LCIVTVCVTICTYFLLNAEDYRQWTSFLSAATAIYVMYSPFYFFKTKMYGLFQTS 419
Db 497 LLIVTICVTIVGTYFLLNAENYHQWTSFPSAATAIYVLYSIYVYVHKTKSGRPFQTS 556
Qy 420 FYFGMAVSTALGIMCGAI 439
Db 557 FYFGYTLMFCLGLGILCGAI 576
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RESULT 12
US-10-437-963-103141
; Sequence 103141, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 103141
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(424)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_1005C.1.p
US-10-437-963-103141

Query Match 54.5%; Score 1278.5; DB 16; Length 424;
Best Local Similarity 58.2%; Pred. No. 6.8e-116;
Matches 231; Conservative 67; Mismatches 98; Indels 1; Gaps 1;

Qy 44 LTSEGKVLVPNTKIOMSYSVKKKSDYKDFEDRDKYLDPSFFQHRHWFESIFNSFMNVI 103
Db 10 ISQSPSTHLEAGKLDMTYSVKVQTNVAFARFEVLYDYPFEHQHWFESIFNSFMNVI 69
Qy 104 FLVGLVSMILMRTLKDYARYSKE-BEEMDDMDRLDGEYGHQVGDVFRPSSHPLIFSS 162
Db 70 FLTGLVSMILMRTLKDYARYSKE-BEEMDDMDRLDGEYGHQVGDVFRPSSHPLIFSS 129
Qy 163 LTSGCQCPAVSLIVIIIVAMIEDLYTERGSMSTAIYVAATSPVNGYFGSILYAROGGR 222
Db 130 FVIGTQLAAILLVILVLAIVGMLYVGRGAIITTFIVCYALTISFISVAGLSYRNGK 189
Qy 223 RWIKOMFIFALIPAMVCGTAFFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLV 282
Db 190 NMWIKSMILTASLIFPLCFISGLVNLTAIFYSRLAIPFGTMVIFVLMWAFISPLVLLG 249
Qy 283 TILGRNLSGQNPFCRVNAVPRPIPEKWFEPVAVICLGLPGSFIEMVFIETSF 342
Db 250 TVGRNWSGAPNNPCRVKTIPIPEKWKYITPSVISLIMGLLPFGSFIEMVFIETSF 309
Qy 343 AKYIYVYVGMMLLVILCIYVTCVTIVCTYFLLNAEDYRQWTSFLSAATAIYVYV 402
Db 310 NYKYVYVYVGMMLLVILCIYVTCVTIVCTYFLLNAENYHQWTSFPSAATAIYVLY 369
Qy 403 FYIYFFKTKMYGLQTSFYFGYMAVSTALGIMCGAI 439
Db 370 IYIYHVTKMSGFFQTSFYFGYTLMFCLGLGILCGTV 406

RESULT 13
US-10-425-115-206340
; Sequence 206340, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
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Qy 169 QIFAVSLIIVIAMIEDLYT-ERGSMLSTAIFVYAATSPVNGYEGGSLYARQGRBWKQ 227
Db 402 QLFALTTFIFLLALVGVFPYNRGALFTALVVIYALTSGIAGYVATSFYSOLEGTNWVRN 461
Qy 228 MFIGAFLIPAMVCGTAFPFINFAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGR 287
Db 462 LLLTGCLFCGPLLTFCLNLTVAIAYSATAALPGTICVIVLIWTLVTFPLLVLGGIAGK 521
Qy 288 NLSGQNPFCRVNAVPRPIPEKKWFMEPAVIVCLGILPFGSIFIEMYFIETSFWAYKIY 347
Db 522 NSKSEFOAPCSTTKYPREIPPLPWYRTIPQMAWAGELPFSAIYIELYIFASVWGHRIY 581
Qy 348 VYVGFMMVLVLICIVTVCVTIVCTYFLLNAEDYRMOWTSFLSAASTAIYVMYSFYFF 407
Db 582 TIYSILFIVFILLIVTAFITVITYQLAAEDHEWWRSLCGSGTGFVYGYCLYYY 641
Qy 408 FKTKMYGLFQTSFYGYNAVFSTALGINCGAI 439
Db 642 ARSDMSGFMQTSFFFGYMACICYAFFLMLGMV 673

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Search completed: November 17, 2004, 17:35:39
Job time : 84.6099 secs

Result No.	Score	Match	Length	ID	Description
1	1800	100.0	1837	4	US-09-786-681A-3
2	1800	100.0	1872	4	US-09-786-681A-1
3	444	24.7	444	4	US-09-621-976-1829
4	383.4	21.3	440	4	US-09-513-998C-3708
5	369.8	20.5	771	4	US-09-270-767-679
6	369.8	20.5	771	4	US-09-270-767-15961
7	364.8	20.3	433	4	US-09-513-998C-3502
8	230.8	12.8	571	4	US-09-270-767-28434
9	230.8	12.8	1151	4	US-09-270-767-12633
10	227.6	12.6	2805	3	US-08-959-004-6
11	161.2	9.0	995	4	US-09-270-767-14715
12	132.8	7.4	726	4	US-09-248-796A-6208
13	101	5.6	262	4	US-09-313-294A-2292
14	91.6	5.1	769	3	US-09-385-982-530
15	64.6	3.6	302	4	US-09-702-705-1002
16	64.6	3.6	302	4	US-09-736-457-1002
17	64.6	3.6	302	4	US-09-614-124B-1002
18	64.6	3.6	302	4	US-09-671-323-1002
19	64.6	3.6	302	4	US-09-658-821-1002
20	56.4	3.1	279	4	US-09-313-294A-4533
21	51.8	2.9	7218	1	US-08-232-463-14
22	51	2.8	1141	1	US-09-806-708B-22
23	50.4	2.8	7218	1	US-08-232-463-14
24	47.8	2.7	299	4	US-09-313-294A-772
25	45.6	2.5	519	1	US-08-686-878A-20
26	45.6	2.5	519	3	US-09-175-928-20
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28	45.4	2.5	1141	4	US-09-806-708B-22
29	45.4	2.5	1141	4	US-09-806-708B-22
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31	45.4	2.5	1141	4	US-09-806-708B-22
32	45.4	2.5	1141	4	US-09-806-708B-22
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35	45.4	2.5	1141	4	US-09-806-708B-22
36	45.4	2.5	1141	4	US-09-806-708B-22
37	45.4	2.5	1141	4	US-09-806-708B-22
38	45.4	2.5	1141	4	US-09-806-708B-22
39	45.4	2.5	1141	4	US-09-806-708B-22
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44	45.4	2.5	1141	4	US-09-806-708B-22
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46	45.4	2.5	1141	4	US-09-806-708B-22
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48	45.4	2.5	1141	4	US-09-806-708B-22
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58	45.4	2.5	1141	4	US-09-806-708B-22
59	45.4	2.5	1141	4	US-09-806-708B-22
60	45.4	2.5	1141	4	US-09-806-708B-22
61	45.4	2.5	1141	4	US-09-806-708B-22

QY 361 ACATAGATGATTTACCAATATGGGGTATTTGGTGGAGCTGATGAAATCGAGAGATTT 420
 Db 425 ACATAGATGATTTACCAATATGGGGTATTTGGTGGAGCTGATGAAATCGAGAGATTT 484
 QY 421 ACTATCTTTGACCTATATAAATCTGAAATAGGTTTAAATGGAAATCGAATTTGTCATG 480
 Db 485 ACTATCTTTGACCTATATAAATCTGAAATAGGTTTAAATGGAAATCGAATTTGTCATG 544
 QY 481 TTAATCTAACTAGTGAAGAAAGTGAATCTGGTTCGAAATCTGAAATCTGAAATCTGAT 540
 Db 545 TTAATCTAACTAGTGAAGAAAGTGAATCTGGTTCGAAATCTGAAATCTGAAATCTGAT 604
 QY 541 ATTCAATAAATGAAATAGTCAATGTAATTTGAATCTGATTTGAAATATCTG 600
 Db 605 ATTCAATAAATGAAATAGTCAATGTAATTTGAATCTGATTTGAAATATCTG 664
 QY 601 ATCCGTCCTTTTCAACATCGGATTCATTGGTTTCAATTTTCAATCTCTTCATGATGG 660
 Db 665 ATCCGTCCTTTTCAACATCGGATTCATTGGTTTCAATTTTCAATCTCTTCATGATGG 724
 QY 721 TGATCTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATTAATG 720
 Db 725 TGATCTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATTAATG 784
 QY 781 CTGCTAGTAAAGAGGAAATGATGATATGATAGACCTAGGAGATGAATATG 780
 Db 785 CTGCTAGTAAAGAGGAAATGATGATATGATAGACCTAGGAGATGAATATG 844
 QY 841 GATGGAACAGTGCATGGAGATGATTTAGAACATCAAGTCAACCCACTGATATTTCCCT 840
 Db 845 GATGGAACAGTGCATGGAGATGATTTAGAACATCAAGTCAACCCACTGATATTTCCCT 904
 QY 841 CTGCTAGTAAAGAGGAAATGATGATATGATAGACCTAGGAGATGAATATG 900
 Db 905 CTGCTAGTAAAGAGGAAATGATGATATGATAGACCTAGGAGATGAATATG 964
 QY 901 TGATAGAGATTTATATACCTGAGAGGGATCAATGCTCAGTACAGCCATATTTGCTATG 960
 Db 965 TGATAGAGATTTATATACCTGAGAGGGATCAATGCTCAGTACAGCCATATTTGCTATG 1024
 QY 961 CTGCTAGTAAAGAGGAAATGATGATATGATAGACCTAGGAGATGAATATG 1020
 Db 1025 CTGCTAGTAAAGAGGAAATGATGATATGATAGACCTAGGAGATGAATATG 1084
 QY 1021 GGAGATGATAAAGAGGAAATGATGATATGATAGACCTAGGAGATGAATATG 1080
 Db 1085 GGAGATGATAAAGAGGAAATGATGATATGATAGACCTAGGAGATGAATATG 1144
 QY 1081 CTGCTCTTCTCATCAATTTATAGCCATTTATACCATGCTTCAAGAGCCATTCCTTTTG 1140
 Db 1145 CTGCTCTTCTCATCAATTTATAGCCATTTATACCATGCTTCAAGAGCCATTCCTTTTG 1204
 QY 1141 GAACAAATGGTGGCGTTTGTGCACTGTTTTTTTGTATTTCTTCCTCAAAATCTGTTG 1200
 Db 1205 GAACAAATGGTGGCGTTTGTGCACTGTTTTTTTGTATTTCTTCCTCAAAATCTGTTG 1264
 QY 1201 GTACAAATCTGCGGAAATCTGTCAGGTCAAGCCAACTTCCCTGTCGTCGTCGTCG 1260
 Db 1265 GTACAAATCTGCGGAAATCTGTCAGGTCAAGCCAACTTCCCTGTCGTCGTCGTCGTCG 1324
 QY 1261 TGCTCTGCTTATACCGAGAGAAATGGTTCATGAGAGCTGCGGTTATTTGTTGCTG 1320
 Db 1325 TGCTCTGCTTATACCGAGAGAAATGGTTCATGAGAGCTGCGGTTATTTGTTGCTG 1384
 QY 1321 GTGAAATTTTACCTTTTGGTTCATCTTTTAAATGTAATTTTCACTTCCAGCTCTTTCT 1380
 Db 1385 GTGAAATTTTACCTTTTGGTTCATCTTTTAAATGTAATTTTCACTTCCAGCTCTTTCT 1444
 QY 1381 GGGCATATAGATCTATATGTCATGCTTATGATGCTGCTGCTGCTGCTGCTGCTGCTG 1440
 Db 1445 GGGCATATAGATCTATATGTCATGCTTATGATGCTGCTGCTGCTGCTGCTGCTGCTG 1504

QY 1441 TTGTGACTCTGTGTGACTATTTGTGCACATATTTTCTACTAAATCGAGAGATTTACC 1500
 Db 1505 TTGTGACTCTGTGTGACTATTTGTGCACATATTTTCTACTAAATCGAGAGATTTACC 1564
 QY 1501 GGTGGCAATGGACAAAGTTTTCTCTCTGCTGCATCAATGCAATCTATGTTTACATGATTT 1560
 Db 1565 GGTGGCAATGGACAAAGTTTTCTCTCTGCTGCATCAATGCAATCTATGTTTACATGATTT 1624
 QY 1561 CCTTTTACTACTATTTTTCACAAACAAAGATGTAATGGCTTATTTCAACATCATTTTACT 1620
 Db 1625 CCTTTTACTACTATTTTTCACAAACAAAGATGTAATGGCTTATTTCAACATCATTTTACT 1684
 QY 1621 TTGGATATATGCGGTATTTAGCACAGCCTTGGGATATGTCGAGCGATTTGTTTACA 1680
 Db 1685 TTGGATATATGCGGTATTTAGCACAGCCTTGGGATATGTCGAGCGATTTGTTTACA 1744
 QY 1681 TGGGAACAAAGTCCCTTTTGTCCGAAAAATCTATATCTAATGTAATAATGACTAGACCCCA 1740
 Db 1745 TGGGAACAAAGTCCCTTTTGTCCGAAAAATCTATATCTAATGTAATAATGACTAGACCCCA 1804
 QY 1741 AGAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAATGTCACAGCAAAA 1800
 Db 1805 AGAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAATGTCACAGCAAAA 1864

RESULT 3
 US-09-621-976-18829
 ; Sequence 18829, Application US/09621976
 ; Patent No. 6639063
 ; GENERAL INFORMATION:
 ; APPLICANT: Dumas Maline Edwards, J.B.
 ; APPLICANT: Jobert, S.
 ; APPLICANT: Giordano, J.Y.
 ; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
 ; FILE REFERENCE: GENSET.054PR2
 ; CURRENT APPLICATION NUMBER: US/09/621,976
 ; NUMBER OF SEQ ID NOS: 2000-07-21
 ; SOFTWARE: Patent.pm
 ; SEQ ID NO 18829
 ; LENGTH: 444
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-621-976-18829

Query Match 24.7%; Score 444; DB 4; Length 444;
 Best Local Similarity 100.0%; Pred. No. 1.5e-112; Indels 0; Gaps 0;
 Matches 444; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 486 CTAACCTAGTGAAGGAAAGTGAATCTGTTCCAAATCTAATAATCCAGATGTCATATTTCA 545
 Db 1 CTAACCTAGTGAAGGAAAGTGAATCTGTTCCAAATCTAATAATCCAGATGTCATATTTCA 60
 QY 546 GTAAATGGAAGAAAGTGCAGATGTAATTTGAAGATCGATTTGACAAATATCTTGATCCG 605
 Db 61 GTAAATGGAAGAAAGTGCAGATGTAATTTGAAGATCGATTTGACAAATATCTTGATCCG 120
 QY 606 TCCCTTTTTCACATCGGATTCATTTGGTTTTCATTTTTCATCTCTTTCATGATGTCGTC 665
 Db 121 TCCCTTTTTCACATCGGATTCATTTGGTTTTCATTTTTCATCTCTTTCATGATGTCGTC 180
 QY 666 TTCCTTGGTGGCTTAGTTTCAATGATTTTATAGAACATTAAGAAAGATTTGCTCGG 725
 Db 181 TTCCTTGGTGGCTTAGTTTCAATGATTTTATAGAACATTAAGAAAGATTTGCTCGG 240
 QY 726 TACAGTAAAGAGGAAAGTGCATGATGATGAGACCTAGGAGATGAATATGATGATG 785
 Db 241 TACAGTAAAGAGGAAAGTGCATGATGATGAGACCTAGGAGATGAATATGATGATG 300
 QY 786 AAACAGGTGCATGAGATGTAATTTAGACCATCAAGTACCACCTGATATTTTCTCTCTG 845
 Db 301 AAACAGGTGCATGAGATGTAATTTAGACCATCAAGTACCACCTGATATTTTCTCTCTG 360

Qy	846	ATTGGTTCGGATCTCAGATATTGTCGTGTCCTCATCGTTATTATTGTCGAATGATA	905
Dh	361	ATTGGTTCGGATCTCAGATATTGTCGTGTCCTCATCGTTATTATTGTCGAATGATA	420

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RESULT 4
US-09-513-999C-3708
; Sequence 3708, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.

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; NAME/KEY: UNSURE
; LOCATION: 73
; OTHER INFORMATION: Xaa=Ala or Asp
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; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 74
; OTHER INFORMATION: Xaa=Lys or Thr
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US-09-513-999C-3708

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RESULT 5
US-09-270-767-679/c
. Sequence 679. Application US/09270767

Query Match	20.5%	Score 369.8;	DB 4;	Length 771;
Best Local Similarity	67.7%	Pred. No. 5.8e-92;		
Matched Sequences	0	Matches 247	Indels 0	Gaps 0

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; LOCATION: 55
; OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val

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QY 606 TCCTTTTTCACATCGGATTCATTTGGTTTTCATTTTCAATCTCTTCATGATGGTGC 665
Db |||||
QY 705 AACTTCTTCCAGCACAGGATCCATGGTTTCAAGATCTTCAACAGCTTCATGATGGTGC 646
Db |||||
QY 666 TTCTTGGTGGCTTAGTTCATGATTTTATGAGAACATTAAGAAAAGATTAATGCTCGG 725
Db |||||
QY 645 TTCTTGGTGGCTTGGTGTCCATGATTTCTGATGGAATCTTGCCAAAGGATTAATGCTCGG 586
QY 726 TACAGTAAAGAGGAAGAAATGGATGATGATAGAGACCTPAGGAGATGAATAGGATGG 785
Db |||||
QY 585 TACAGTAAAGAGGAGGAATCGACGACATGAGGCGAGATCTTGTGATGAATACGGCTGG 526
QY 786 AAAAGGTGCTAGGAGATGATTTAGACCAATCAAGTCAACCATGATATTTCTCTCTG 845
Db |||||
QY 525 AAGCAGGTGCTAGGCGATGCTTCGGTTCTCCGCCCAACACACTGCTCTCTCGCGCTG 466
QY 846 ATTGGTCTGATGCTAGATTTGCTGTGCTCTCATCTGTTATTTATGTTGCAATGATA 905
Db |||||
QY 465 GTGGCGGTGATACCACTGAATTTGGTGTATCTGTGTGATCATGTTCTCGCCATAGTT 406
QY 906 GAAGATTTATATCTAGAGAGGGATCAATGCTCAGTACAGCCATATTTGCTATGCTGCT 965
Db |||||
QY 405 GGTGAATTTGATACAGGAACGGGCTCCATGCTGTCACGCTATATTTGTTATGCGGCC 346
QY 966 ACCTCTCAGTGAATGTTATTTGGAGGAAGTCTGTATGCTAGACAAAGGAGGAAGAGA 1025
Db |||||
QY 345 ACCTCACCAATCAATGATATCTTTGGAGGATGCTCTATGCCCGCTGGGTGGACGCATG 286
QY 1026 TGGATAAAGCAGATGTTTATTTGGGCGCATTCCTTATCCAGCTATGTTGTCGACCTGCC 1085
Db |||||
QY 285 TGGATCCGACAGATGCTGGTGTGCGCTTTTACAGTCCAGTGGCTGHTGCGGACGGCT 226
QY 1086 TTCTTCAATCAATTTACATGAGGATTTTACCATGCTTCAAGAGCCATTCCTTTTGAACA 1145
Db |||||
QY 225 TTCTGTATCAATTCATTTGGATATCAAGCTTCGAGAGCCATTCCTTCGTTACC 166
QY 1146 ATGGTGGCGCTTGTTCAGCTGCTTTTGTATTTTGTATTTTCTCTTAAATCTTGTGTACA 1205
Db |||||
QY 165 ATGGTGGCGCTTGTTCAGCTGCTTTTGTATTTTGTATTTTCTCTTAAATCTTGTGTACA 106
QY 1206 ATACTTGGCGGAAATCTGTCTAGGTGAGCCCAATTCCTTCTGTGTGTCAATGCTGTGCT 1265
Db |||||
QY 105 GTGTGGCGGCAATCTGAGCGCCCAACCGGACTTTCATGCGCGTCAACGCGGTGCCA 46
Db |||||
QY 45 CGACCCATTCGGAAGAGAGTGTGTACATGGAGCCACTGATTATT 1

RESULT 6

US-09-270-767-15961/c
; Sequence 15961, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 15961
; LENGTH: 771
; TYPE: DNA
; ORGANISM: *Drosophila melanogaster*
us-09-270-767-15961

Query Match 20.5%; Score 369.8; DB 4; Length 771;
Best Local Similarity 67.7%; Pred. No. 5.8e-92;
Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;
QY 546 GTAAATGGAAGTGAATGTAATTTGAAGATCGATTTGACAAATATCTTATCGG 605
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Db 765 GTCAACTGGAGCCAGCAAGGTGGAGTTCAAGATCGATTTCGACAGGTACCTGGATCCC 706
QY 606 TCCTTTTTCACATCGGATTCATTTGGTTTTCATTTTCAATCTCTTCATGATGGTGC 665
Db |||||
QY 705 AACTTCTTCCAGCACAGGATCCATGGTTTCAAGATCTTCAACAGCTTCATGATGGTGC 646
QY 666 TTCTTGGTGGCTTAGTTCATGATTTTATGAGAACATTAAGAAAAGATTAATGCTCGG 725
Db |||||
QY 645 TTCTTGGTGGCTTGGTGTCCATGATTTCTGATGGAATCTTGCCAAAGGATTAATGCTCGG 586
QY 726 TACAGTAAAGAGGAAGAAATGGATGATGATAGAGACCTPAGGAGATGAATAGGATGG 785
Db |||||
QY 585 TACAGTAAAGAGGAGGAATCGACGACATGAGGCGAGATCTTGTGATGAATACGGCTGG 526
QY 786 AAAAGGTGCTAGGAGATGATTTAGACCAATCAAGTCAACCATGATATTTCTCTCTG 845
Db |||||
QY 525 AAGCAGGTGCTAGGCGATGCTTCGGTTCTCCGCCCAACACACTGCTCTCTCGCGCTG 466
QY 846 ATTGGTCTGATGCTAGATTTGCTGTGCTCTCATCTGTTATTTATGTTGCAATGATA 905
Db |||||
QY 465 GTGGCGGTGATACCACTGAATTTGGTGTATCTGTGTGATCATGTTCTCGCCATAGTT 406
QY 906 GAAGATTTATATCTAGAGAGGGATCAATGCTCAGTACAGCCATATTTGCTATGCTGCT 965
Db |||||
QY 405 GGTGAATTTGATACAGGAACGGGCTCCATGCTGTCACGCTATATTTGTTATGCGGCC 346
QY 966 ACCTCTCAGTGAATGTTATTTGGAGGAAGTCTGTATGCTAGACAAAGGAGGAAGAGA 1025
Db |||||
QY 345 ACCTCACCAATCAATGATATCTTTGGAGGATGCTCTATGCCCGCTGGGTGGACGCATG 286
QY 1026 TGGATAAAGCAGATGTTTATTTGGGCGCATTCCTTATCCAGCTATGTTGTCGACCTGCC 1085
Db |||||
QY 285 TGGATCCGACAGATGCTGGTGTGCGCTTTTACAGTCCAGTGGCTGHTGCGGACGGCT 226
QY 1086 TTCTTCAATCAATTTACATGAGGATTTTACCATGCTTCAAGAGCCATTCCTTTTGAACA 1145
Db |||||
QY 225 TTCTGTATCAATTCATTTGGATATCAAGCTTCGAGAGCCATTCCTTCGTTACC 166
QY 1146 ATGGTGGCGCTTGTTCAGCTGCTTTTGTATTTTGTATTTTCTCTTAAATCTTGTGTACA 1205
Db |||||
QY 165 ATGGTGGCGCTTGTTCAGCTGCTTTTGTATTTTGTATTTTCTCTTAAATCTTGTGTACA 106
QY 1206 ATACTTGGCGGAAATCTGTCTAGGTGAGCCCAATTCCTTCTGTGTGTCAATGCTGTGCT 1265
Db |||||
QY 105 GTGTGGCGGCAATCTGAGCGCCCAACCGGACTTTCATGCGCGTCAACGCGGTGCCA 46
QY 1266 CGTCTATACCGAGAGAAAATGGTTTCATGAGCGCTGCGGTTATT 1310
Db |||||
QY 45 CGACCCATTCGGAAGAGAGTGTGTACATGGAGCCACTGATTATT 1

RESULT 7

US-09-513-999C-3502
; Sequence 3502, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 3502
; TYPE: DNA
; LENGTH: 433
; ORGANISM: *Homo sapiens*
; FEATURE:

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; NAME/KEY: CDS
; LOCATION: 100..432
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 86
; OTHER INFORMATION: m=a or c
US-09-513-999C-3502

Query Match      20.3%; Score 364.8; DB 4; Length 433;
Best Local Similarity 98.9%; Pred. No. 1e-90; 3; Indels 0; Gaps 0;
Matches 366; Conservative 1; Mismatches 0;

QY 60 CACACGATCAAGATAAAGAGAAAGTTGTCTTATGATGAATACTGTGGGCCCTTACCAT 119
Db 64 CAGCAGTATCAAGATAAAGAGAGAGTTGTCTTATGATGAATACTGTGGGCCCTTACCAT 123
QY 120 AATGCTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGGGGTCAAAAAAAGT 179
Db 124 AATGCTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGGGGTCAAAAAAAGT 183
QY 180 ATCAGTCATTACCATGAACCTCTGGGAGAACCTTCAAGGGGTTGAATTGGAATTTAGT 239
Db 184 ATCAGTCATTACCATGAACCTCTGGGAGAACCTTCAAGGGGTTGAATTGGAATTTAGT 243
QY 240 GGTCTGGATATAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAATTTGATTA 299
Db 244 GGTCTGGATATAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAATTTGATTA 303
QY 300 GATTAAGAAAAGAGATGATGATTTGTATATGCCATAAAAAATATTACTGTACCAGATG 359
Db 304 GATTAAGAAAAGAGATGATGATTTGTATATGCCATAAAAAATATTACTGTACCAGATG 363
QY 360 TACATAGATATTTACCAATATGGGATTTTGTGGTGAAGCTGATGAATGGAAGAT 419
Db 364 TACATAGATATTTACCAATATGGGATTTTGTGGTGAAGCTGATGAATGGAAGAT 423
QY 420 TACTATCTTT 429
Db 424 TACTATCTTT 433

RESULT 8
US-09-270-767-28434
; Sequence 28434, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28434
; LENGTH: 571
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-28434

Query Match      12.8%; Score 230.8; DB 4; Length 571;
Best Local Similarity 72.7%; Pred. No. 9.9e-54;
Matches 298; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1330 TACCTTTTGGTCAATCTTTTAAATGATTTTCACTTCCACGTCCTTTCTGGGCATATA 1389
Db 1 TGCCTTTTGGATCCATCTTCATTTGAGATGATCTTCACTTCCCTCTTCTGGGCGTACA 60
QY 1390 AGATCTATTATGCTATGGCTTCATGATGCTGGTTCCTGCTGTTATCCTGTCATTGTGACTG 1449
Db 61 AGATCTATTATGCTATGGCTTCATGATGCTGGTTCCTGCTGTTATCCTGTCATTGTGACTG 120
QY 1450 TCTGTGTGACTATTGTGTGCAATATTTTCTACTAAATGCGAAGATACCGTGGCAAT 1509
Db 121 TGTGGCTCACCATCGTGTGCACCTACTTCTCTGCTAAATGCCGAGGATTACCGATGGCAGT 180
QY 1510 GGACAAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTCTTTTACT 1569
Db 181 GGACAAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTCTTTTACT 240
QY 1570 ACTATTTTTCAAAAACAAAGATGATGGCTTATTTTCAAAACATCATTTTACTTTGGATATA 1629
Db 241 ACTTCTTTTAAAAACCAAAATGTTTCGGTCTGTTTCCAAAACGGCCTTCTACTTTGGCTACA 300
QY 1630 TGGCGGTATTAGCACAGCCTTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAA 1689
Db 301 TGGCACTCTTCAGCGGCGCCTTTGGGCAATTAATCTGGGCACCGCTGCTGCTATGTGGCACA 360
QY 1690 GTCCCTTTTCCGAAAAATCTTACTATTAATGTGAAAAATTTGACTAGAGACCC 1739
Db 361 ATCTCTTTTGGCGAAAAATCTTATTCCAATGTGAAAAATAGACTAAGAGCCC 410

RESULT 10
US-08-959-004-6
; Sequence 6, Application US/08959004

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Db 121 TGTGGCTCACCATCGTGTGCACCTACTTCTCTGCTAAATGCCAGGATTACCGATGGCAGT 180
QY 1510 GGACAAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTCTTTTACT 1569
Db 181 GGACAAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTCTTTTACT 240
QY 1570 ACTATTTTTCAAAAACAAAGATGATGGCTTATTTTCAAAACATCATTTTACTTTGGATATA 1629
Db 241 ACTTCTTTTAAAAACCAAAATGTTTCGGTCTGTTTCCAAAACGGCCTTCTACTTTGGCTACA 300
QY 1630 TGGCGGTATTAGCACAGCCTTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAA 1689
Db 301 TGGCACTCTTCAGCGGCGCCTTTGGGCAITTAATCTGGGCACCGCTGCTGCTATGTGGCACA 360
QY 1690 GTCCTTTTGTGCGAAAAATCTTACTATTAATGTGAAAAATTTGACTAGAGACCC 1739
Db 361 ATCTCTTTTGGCGAAAAATCTTATTCCAATGTGAAAAATAGACTAAGAGCCC 410

RESULT 9
US-09-270-767-12633
; Sequence 12633, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12633
; LENGTH: 1151
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-12633

Query Match      12.8%; Score 230.8; DB 4; Length 1151;
Best Local Similarity 72.7%; Pred. No. 1.5e-53;
Matches 298; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1330 TACCTTTTGGTCAATCTTTTAAATGATTTTCACTTCCACGTCCTTTCTGGGCATATA 1389
Db 1 TGCCTTTTGGATCCATCTTCATTTGAGATGATCTTCACTTCCCTCTTCTGGGCGTACA 60
QY 1390 AGATCTATTATGCTATGGCTTCATGATGCTGGTTCCTGCTGTTATCCTGTCATTGTGACTG 1449
Db 61 AGATCTATTATGCTATGGCTTCATGATGCTGGTTCCTGCTGTTATCCTGTCATTGTGACTG 120
QY 1450 TCTGTGTGACTATTGTGTGCAATATTTTCTACTAAATGCGAAGATACCGTGGCAAT 1509
Db 121 TGTGGCTCACCATCGTGTGCACCTACTTCTCTGCTAAATGCCGAGGATTACCGATGGCAGT 180
QY 1510 GGACAAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTCTTTTACT 1569
Db 181 GGACAAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTCTTTTACT 240
QY 1570 ACTATTTTTCAAAAACAAAGATGATGGCTTATTTTCAAAACATCATTTTACTTTGGATATA 1629
Db 241 ACTTCTTTTAAAAACCAAAATGTTTCGGTCTGTTTCCAAAACGGCCTTCTACTTTGGCTACA 300
QY 1630 TGGCGGTATTAGCACAGCCTTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAA 1689
Db 301 TGGCACTCTTCAGCGGCGCCTTTGGGCAATTAATCTGGGCACCGCTGCTGCTATGTGGCACA 360
QY 1690 GTCCCTTTTCCGAAAAATCTTACTATTAATGTGAAAAATTTGACTAGAGACCC 1739
Db 361 ATCTCTTTTGGCGAAAAATCTTATTCCAATGTGAAAAATAGACTAAGAGCCC 410

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Patent No. 6197543
 GENERAL INFORMATION:
 APPLICANT: Hillman, Jennifer L.
 APPLICANT: Yue, Henry
 APPLICANT: Corley, Neil C.
 APPLICANT: Lal, Preeti
 APPLICANT: Shah, Purvi
 APPLICANT: Kaser, Matthew
 TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
 TITLE OF INVENTION: PROTEINS
 NUMBER OF SEQUENCES: 11
 CORRESPONDENCE ADDRESS:
 ADDRESS: Incyte Pharmaceuticals, Inc.
 STREET: 3174 Porter Drive
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94304
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: PastSeq for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/959,004
 FILING DATE: Herewith
 CLASSIFICATION: 514
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Billings, Lucy J.
 REGISTRATION NUMBER: 36,749
 REFERENCE/DOCKET NUMBER: PF-0414 US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650-855-0555
 TELEFAX: 650-845-4166
 TELEX:
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2805 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 LIBRARY: ADRETUT06
 CLONE: 2822412
 US-08-959-004-6

Query Match 12.68; Score 227.6; DB 3; Length 2805;
 Best Local Similarity 51.9%; Pred. No. 1.8e-52;
 Matches 596; Conservative 0; Mismatches 534; Indels 18; Gaps 3;
 QY 592 AATATCTTGATCCGTCCTCTTTTCAACATCGGATTCATTGGTTTCAATTTTCAACTCCT 651
 DB 1044 ACTATATCTGGAGTCTATGCCCTATACCCACATTCAGTGGTTAGCAATTAGATCCC 1103
 QY 652 TCATGATGGTGAICCTTCTGGTGGGCTTAGTTCAATGATTTTAAATGAGAACATTAGAA 711
 DB 1104 TGGTCATTGTCTCTCTTCTGGAATGGTAGCTATGATTATGTTACGGACACTGCACA 1163
 QY 712 AAGATTATGTCGGTCAGTAAGAGGAGAAATGATGGATGATAGAGACCTAGGAG 771
 DB 1164 AAGATTATGTCAGATATATACATGAGTCTACGGAAGATGCCAG-----G 1211
 QY 772 ATGAATATGGATGGAACAGGTCATGGAGATGATTTTAGACCATCAAGTCAACCACTGA 831
 DB 1212 AAGAAATTTGGCTGAAACTTTGTTCAATGATATATCCGTCCTCCAAGAAAGGATGC 1271
 QY 832 TATTTCCCTCTGATTTGTTCTGGATGTCAGATATTTGCTGTCTCTCATCGTTATTA 891
 DB 1272 TGCTATCAGTCTTCTTAGGATCCGGACACAGATTTTAAATTATGACCTTTGTGACTCTAT 1331

QY 892 TTCTTGCATGATAGAAATTTTATATCTAGAGGGGATCAATGCTCAGTAC---AGCCA 948
 DB 1332 TTTTCGCTTGCCTGGGATTTTGTACCTGCGCAACCGAGAGCGCTGATGACGCTGTGCTG 1391
 QY 949 TATTTGCTATGCTGCTAGTCTCCAGTGAATGGTTTATTTTGGAGGAAGTCTGTATGCTA 1008
 DB 1392 TGGTCTGTGGGTGCTGCTGGGCACCCCTGAGGCTATGTTGCTGCCAGATTTCTATAAT 1451
 QY 1009 GACAAGGAGGAGAGATGGATAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCTA 1068
 DB 1452 CCTTTGGAGGTGAGAAAGTGGAAAAAATAATGTTTATTAACATCAATTTCTTTGCTGGGA 1511
 QY 1069 TGGTGTGTG3CACTGCTCTTCTTCATCAATTTTCATAGCATTATTTACCATGCTTCAAG 1128
 DB 1512 TTGTATTTGCTGACTTCTTTTAATGAATCTGATCCTCTGGGGAGAAGATCTTCAGCAG 1571
 QY 1129 CCATTCCTTTTGGAAACAATGGTGGCCGTTTGTGATCTGTGTTTGTGTTTCTTCCTC 1188
 DB 1572 CTATTCCTTTTGGACACTGTTGCAATATGGCCCTTTGGTTCTGCATATCTGTGCTC 1631
 QY 1189 TAAATCTTGTGGTACAAATCTTGGCGAAATCTGTAGGTCAGGCCCAACTTCTTGTGTC 1248
 DB 1632 TGACGTTTATTTGCTGCTACTTTTGGTTTAAAGAAGATGCCATTGAACAC---CCAGTTC 1688
 QY 1249 GTGTCAATGCTGCTGCTCCTCTATACGGAGAAAAAATGTTTCATGAGCCTGCGGTTA 1308
 DB 1689 GAACCAATCAGATTCACGTCAGATTCCTGAACAGCTGTTCTACAGAGCCCTGCGCTG 1748
 QY 1309 TTGTTTGCCTGGTGGAAATTTTACCTTTTGGTCAATCTTTATTTGAAATGTAATTTCACT 1368
 DB 1749 GTATTATCATGGAGGGATTTTGGCCTTTGGCTGATCTTTATACAACTTTTCTTCAATC 1808
 QY 1369 TCACGTCCTTTCTGGCATAATAGATCTATATGCTATGCTGCTTCTATGCTGCTGCTGCTG 1428
 DB 1809 TGAATAGTATTTGGTCACACAGATGATTAATGATTTGGCTTTCTTATTTCTGGTGTTA 1868
 QY 1429 TTATCCTGTGATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1488
 DB 1869 TCAATTTTGGTTATTACCTGTTCTGAAGCAACTATATCTTCTTGGCTATTTTCCACCTATG 1928
 QY 1489 CAGAAGATTACCGTGGCAATGGACAAGTTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1548
 DB 1929 CAGAGGATTAATTTGGCAATGGCGTTCAATTCCTTTACGAGTGGCTTTTACGAGTTTAT 1988
 QY 1549 TTTACATGATTTCTTTTACTACTATTTTCAAAACAAAGATGATGGCTTATTTCAAA 1608
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 QY 1609 CATCATTTTCTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGAG 1668
 DB 2049 CAATTCCTGCTGCTTGGTTATACCATGATAATGGTTTGTATCTTCTTTTACAGGAA 2108
 QY 1669 CGATTGGTTACATGGGAACAAGTGGCTTTGTCGGAATAATCTATCTAATGTAATAATG 1728
 DB 2109 CAATTTGGCTTCTTTGCTGCTGCTTTGGTTTGTACCAAAATATACAGTGTGTGAAGTTG 2168
 QY 1729 ACTAGAGA 1736
 DB 2169 ACTGAAGA 2176

RESULT 11
 US-09-270-767-14715
 ; Sequence 14715, Application US/09270767
 ; Patent No. 6703491
 ; GENERAL INFORMATION:
 ; APPLICANT: Homburger et al.
 ; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
 ; FILE REFERENCE: File Reference: 7326-094
 ; CURRENT APPLICATION NUMBER: US/09/270,767
 ; CURRENT FILING DATE: 1999-03-17
 ; NUMBER OF SEQ ID NOS: 62517
 ; SOFTWARE: PatentIn Ver. 2.0

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QY 1510 GGACAAGTTTCTCTCTGCTGCATCACTGCAATCTATGTTTACATGATATCTCTTTACT 1569
Db 99 GGACGTGCTTTCTCTCTGACGCGTCAACCGCTCTGTAGTGTATCTGTACTCCATCTACT 158
QY 1570 ACTATTTTTCAAAACAAAGATGTATGCTTATTTTCAAAACATCATTTTACTTTGGATATA 1629
Db 159 ACTACCATGTGAAGACAAGATGTACGGCTTCTCCAGACAGTTTCTATTTGGGTACA 218
QY 1630 TGGCGGTATTAGCACAGCCCTGGGATAATGTGTGAGCGAATTG 1674
Db 219 CGCTGATGTTCTGC-CTGGCCTAGGCATCTTTGTGGAGCTATTG 262

RESULT 14

US-09-385-982-530/c
; Sequence 530, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; TITLE OF INVENTION: PRODUCTS: 11
; FILE REFERENCE: CCDA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 530
; LENGTH: 769
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(769)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-530

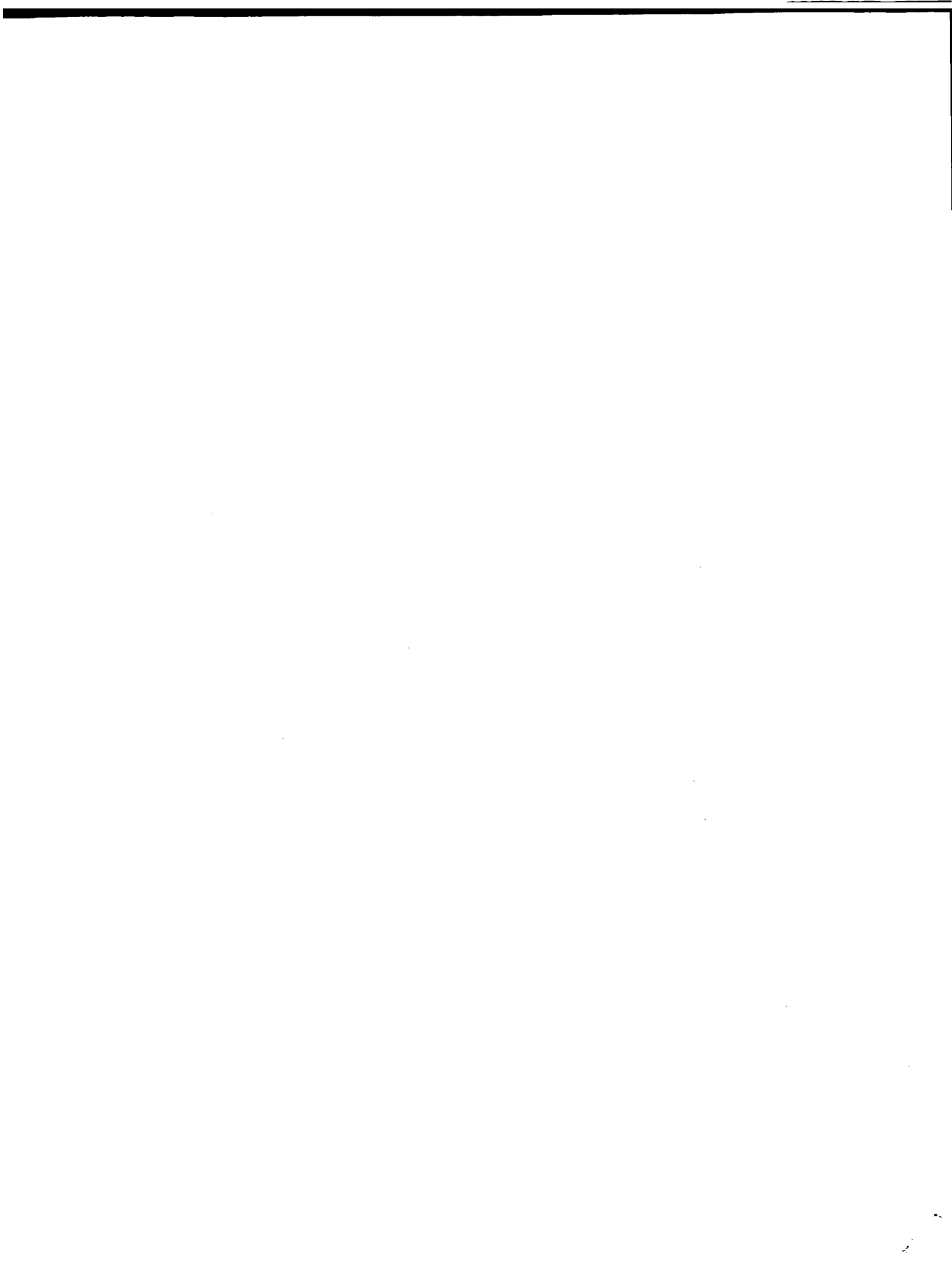
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Best Local Similarity 57.0%; Pred. No. 2.7e-15;
Matches 166; Conservative 0; Mismatches 125; Indels 0; Gaps 0;
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QY 1321 GTGGAATTTTACCTTTTGGTTCATCTTTATTGAAATGTATTTCACTTTCACGCTTTTCT 1380
Db 248 GAGGATTTTGGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTCGAATGATTT 189
QY 1381 GGCAATATAGACTATTATGTCTATGGCTTCTATGCTGTGCTGCTGCTGCTGCTGCA 1440
Db 188 GGTACACACAGATGATATCATGTTTGGCTTCTATTTCTGCTGCTTATCTGCTGCTGCTA 129
QY 1441 TTGTGACTGTCTGTGCTACTATTGTGTGCACATATTTTCTTACTAAATGCAAGATTACC 1500
Db 128 TTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTTCCACCTATGTGAGAGGATTATC 69
QY 1501 GTTGGCAATGGACAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTT 1551
Db 68 ATTGGCAATGGCTTCACTTCTTACAGTGGCTTTACTGCACTTTATTTCT 18

RESULT 15

US-09-702-705-1002/c
; Sequence 1002, Application US/09702705

; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1002
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-702-705-1002
Query Match 3.6%; Score 64.6; DB 4; Length 302;
Best Local Similarity 56.2%; Pred. No. 4.4e-08;
Matches 149; Conservative 0; Mismatches 104; Indels 12; Gaps 1;
QY 599 TGATCGTCCCTTTTTCACATCGGATTCATGTTTCAATGTTTCACTTTCACTCTTTTCAATGAT 658
Db 253 TTACCTGACCATGAGTGACGTCAGATCCAGATCCACTGGTTTCTATCATTAATCCGTTGTTGT 194
QY 659 GGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAAGATTA 718
Db 193 GGTCTTCTTCTGTCAGGTATCCTGAGCATGATTATCATTCGGACCTCCGGAAGGACAT 134
QY 719 TGCTCGGTACAGTAAAGAGGAGAAATGAGATGATATGAGATGAGACCTAGGAGATGAATA 778
Db 133 TGCCAACTACAAAGAGGAGATGACATTTGA-----AGACACCATGGAGAGTGC 86
QY 779 TGGATGGAAACAGGTGCGATGGAGATGATTTAGACCATCAAGTACCCACTGATATTTTC 838
Db 85 TGGGTGGAAAGTTGGTGCACGGGACGCTCTTCAGGCCCCCCCCAGTACCCCATGATCTCTCAG 26
QY 839 CTCTCTGATTTGTTCTGGATGTCAG 863
Db 25 CTCCCTGCTGGGCTCAGGCATTTCAG 1

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- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
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- 21: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	ID	Description
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2	1800	100.0	4024 14	US-10-198-846-10005 Sequence 10005, A
3	1794.4	99.7	3370 10	US-09-374-046A-25 Sequence 25, Appl
4	1794.4	99.7	3370 16	US-10-616-263-25 Sequence 25, Appl
5	1753	97.4	3076 9	US-09-915-582-29 Sequence 29, Appl
6	1753	97.4	3076 15	US-10-277-802-29 Sequence 29, Appl
7	1709	94.9	3389 15	US-10-205-219-122 Sequence 122, App
8	1011.6	56.2	6197 16	US-10-062-674-1697 Sequence 1697, App
9	716.4	39.8	1070 16	US-10-264-237-1414 Sequence 1414, App
10	619.6	34.4	1867 9	US-09-915-582-13 Sequence 13, Appl
11	619.6	34.4	1867 15	US-10-277-802-13 Sequence 13, Appl
12	583.6	32.4	2461 18	US-10-425-115-140808 Sequence 140808,

13	581	32.3	2355 18	US-10-739-930-4365 Sequence 4365, Ap
14	570	31.7	2406 17	US-10-437-963-14430 Sequence 14430, A
15	568.8	31.6	1899 17	US-10-437-963-19405 Sequence 19405, A
16	567.8	31.5	2838 18	US-10-425-115-140319 Sequence 140319, A
17	562.4	31.2	2152 17	US-10-767-701-12720 Sequence 12720, A
18	547.4	30.4	2039 16	US-10-425-114-26742 Sequence 26742, A
19	547.4	30.4	2068 18	US-10-425-115-101961 Sequence 101961, A
20	537.8	29.9	560 16	US-10-242-535A-2630 Sequence 2630, Ap
21	537.8	29.9	560 16	US-10-085-783A-2630 Sequence 2630, Ap
22	536.4	29.8	1713 9	US-09-887-576-809 Sequence 809, App
23	506	28.1	1803 9	US-09-887-576-822 Sequence 812, App
24	502	27.9	1866 9	US-09-887-576-794 Sequence 794, App
25	474.4	26.4	1535 18	US-10-425-115-21677 Sequence 21677, A
26	462.4	25.7	2316 17	US-10-437-963-658 Sequence 658, App
27	416.4	23.1	419 10	US-09-918-395-3956 Sequence 3956, Ap
28	409.6	22.8	497 11	US-09-969-034-1724 Sequence 1724, Ap
29	406.2	22.6	459 15	US-10-062-874-445 Sequence 445, App
30	365.6	20.3	455 15	US-10-002-831C-133 Sequence 133, App
31	365.6	20.3	455 15	US-10-002-831C-134 Sequence 134, App
32	300.8	16.7	731 16	US-10-333-184-388 Sequence 388, App
33	300.8	16.7	2032 18	US-10-425-115-21679 Sequence 21679, A
34	296.4	16.5	2748 16	US-10-424-599-103451 Sequence 103451, A
35	294.8	16.4	1033 16	US-10-425-114-16392 Sequence 16392, A
36	273.8	15.2	529 14	US-10-198-846-11456 Sequence 11456, A
37	262.6	14.6	600 17	US-10-021-323-3365 Sequence 3365, Ap
38	256.4	14.2	2176 16	US-10-424-599-31527 Sequence 31527, A
39	250.6	13.9	2314 17	US-10-767-701-13950 Sequence 13950, A
40	248.4	13.8	673 14	US-10-198-846-2790 Sequence 2790, Ap
41	245.8	13.7	2101 16	US-10-425-114-3633 Sequence 3633, Ap
42	244.2	13.6	3097 18	US-10-425-115-17630 Sequence 17630, A
43	242	13.4	2099 17	US-10-437-963-18458 Sequence 18458, A
44	237.8	13.2	2095 16	US-10-425-114-5124 Sequence 5124, Ap
45	235.4	13.1	1346 17	US-10-767-795-636 Sequence 636, App

ALIGNMENTS

RESULT 1

US-09-814-353-21837
Sequence 21837, Application US/09814353
Publication No. US20030165831A1
GENERAL INFORMATION:
APPLICANT: Lee, John
APPLICANT: Thompson, Pamela
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER
TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER
FILE REFERENCE: MRI-006B
CURRENT APPLICATION NUMBER: US/09/814,353
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: US 60/191,031
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: US 60/207,124
PRIOR FILING DATE: 2000-05-25
PRIOR APPLICATION NUMBER: US 60/211,940
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: US 60/216,820
PRIOR FILING DATE: 2000-07-07
PRIOR APPLICATION NUMBER: US 60/220,661
PRIOR FILING DATE: 2000-07-25
PRIOR APPLICATION NUMBER: US 60/257,672
NUMBER OF SEQ ID NOS: 22037
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 21837
LENGTH: 3508
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1, 2, 3506, 3507, 3508


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; SOFTWARE: fastSEQ for Windows Version 4.0
; SEQ ID NO 10005
; LENGTH: 4024
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1, 2, 4021, 4022, 4023, 4024
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-10005

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Query Match      100.0%; Score 1800; DB 14; Length 4024;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1800; Conservative 0; Mismatches 0; Indels 0;
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	Matches	1800;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
Qy	1	CGCGCGCTGTGCTGCTGCTGCTGCTGCTGCTGCCGGACCCGGACCCGGCGCGAGCAGCACGAAC	60							
Db	54	CGCGCGCGCTGTGCTGCTGCTGCTGCTGCTGCCCGGACCCGGCGCGAGCAGCACGAAC	113							
Qy	61	ACAGTATCAAGATAAAGAGAAAGTCGTTATTGSGATGAATACHTGTTGGGCCTACCATA	120							
Db	114	ACAGTATCAAGATAAAGAGAAAGTCGTTATTGSGATGAATACHTGTTGGGCCTACCATA	173							
Qy	121	ATCGTCAAGAAAACATATAAGTACTTTTCACTTCCTCATTCGTGTGGGTCAA AAAAAGTA	180							
Db	174	ATCGTCAAGAAAACATATAAGTACTTTTCACTTCCTCATTCGTGTGGGTCAA AAAAAGTA	233							
Qy	181	TCAGTCAATACCATGAAACTCTGGAGAAGCACATTC AAGGGTGTAAT TGGAA TT TAGTG	240							
Db	234	TCAGTCAATACCATGAAACTCTGGAGAAGCACATTC AAGGGTGTAAT TGGAA TT TAGTG	293							
Qy	241	GTCTGGATATTAATTTAAAGATGATGTGATCCAGCCACAT TACTGTGAAAT TGATTTAG	300							
Db	294	GTCTGGATATTAATTTAAAGATGATGTGATCCAGCCACAT TACTGTGAAAT TGATTTAG	353							
Qy	301	ATAAGAAAAAGAGAGATGCATTTCTATATGCATAAAAAAT CATTACTGGTACCAGATGT	360							
Db	354	ATAAGAAAAAGAGAGATGCATTTCTATATGCATAAAAAAT CATTACTGGTACCAGATGT	413							
Qy	361	ACATAGATGATTTACCAATATGGGGTATT GTTGTGAGGCTGATGAAAAATGGAGAAGATT	420							
Db	414	ACATAGATGATTTACCAATATGGGGTATT GTTGTGAGGCTGATGAAAAATGGAGAAGATT	473							
Qy	421	ACTATCTTTGSA CCTATAAAAA ACTTCCAATAGGTTTTTAATGGAAAA TCGAATCTTTCATG	480							
Db	474	ACTATCTTTGSA CCTATAAAAA ACTTCCAATAGGTTTTTAATGGAAAA TCGAATCTTTCATG	533							
Qy	481	TTAATCTAAC TGTGTAAGGAAAGTGAAC TGGTTCCAAATACTAAAAATCCAGATGT CAT	540							
Db	534	TTAATCTAAC TGTGTAAGGAAAGTGAAC TGGTTCCAAATACTAAAAATCCAGATGT CAT	593							
Qy	541	ATTCAGTAAATGAAAAGTTCAGATGTGAAATTTGAAGATTCGATTTTGACAATAATCTTG	600							
Db	594	ATTCAGTAAATGAAAAGTTCAGATGTGAAATTTGAAGATTCGATTTTGACAATAATCTTG	653							
Qy	601	ATCCGTCCTTTTTC AACATCCGGAATCAT TGGNTTTCAA TTTTCAA CTCTTCATGATGG	660							
Db	654	ATCCGTCCTTTTTC AACATCCGGAATCAT TGGNTTTCAA TTTTCAA CTCTTCATGATGG	713							
Qy	661	TGATCTTTCTTGGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAAGATTATG	720							
Db	714	TGATCTTTCTTGGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAAGATTATG	773							
Qy	721	CTCGGTACAGTAAAGAGAA GAATGGATGAT TGGATAGAGACCTTAGGAGATGAATATG	780							
Db	774	CTCGGTACAGTAAAGAGAGAA GAATGGATGAT TGGATAGAGACCTTAGGAGATGAATATG	833							
Qy	781	GATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATTTTTCCT	840							
Db	834	GATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATTTTTCCT	893							
Qy	841	CTCTGATTTGGTCTTGGATGT CAGATA TTTGGCTGTCTCTCATCGTTATTATTGTTCCAA	900							

RESULT 3

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US-09-374-046A-25
; Section 25, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: McVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl

```

894	Db	CTCTGATGGTTCCTGGATGTCAGATATTTGCTGTGTCCTCTCATCGTATATTTATTTGTTGCA	955
901	Qy	TGATAGAAAGATTTATATCTAGAGAGGGATCAATAGTCTAGTACAGACCATATTTGTCATG	960
954	Db	TGATAGAAAGATTTATATCTAGAGAGGGATCAATAGTCTAGTACAGACCATATTTGTCATG	1013
961	Qy	CTGCTACGTCCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTACAGCAAGGAGAA	1022
1014	Db	CTGTACGTCCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTACAGCAAGGAGAA	1077
1021	Qy	GGAGATGGATAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCATGTGTTGTGGCA	1088
1074	Db	GGAGATGGATAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCATGTGTTGTGGCA	1133
1081	Qy	CTGCGCTTCTTCATCAATTTCAATGCCATTTATTACCATGCTTCAAGAGCATTCCTTTTG	1144
1134	Db	CTGCGCTTCTTCATCAATTTCAATGCCATTTATTACCATGCTTCAAGAGCATTCCTTTTG	1199
1141	Qy	GAACAATGGTGGCGGTTGTTGCAATCTGTTTTTTTTTGTATTTCTTCCTCAAAATCTTTGTG	1200
1194	Db	GAACAATGGTGGCGGTTGTTGCAATCTGTTTTTTTTTGTATTTCTTCCTCAAAATCTTTGTG	1255
1201	Qy	GTACAATACTTGGCGGAAATCTGTACAGTCAGGTCAGCGCAACCTTTCCTGTGCTGCAATGCTG	1266
1254	Db	GTACAATACTTGGCGGAAATCTGTACAGTCAGGTCAGCGCAACCTTTCCTGTGCTGCAATGCTG	1313
1261	Qy	TGCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCGCTGGGTATTATGTTTGCTCGG	1322
1314	Db	TGCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCGCTGGGTATTATGTTTGCTCGG	1377
1321	Qy	GTGGAAATTTTACCTTTTGGTTTCAATCTTTATGAAATGTATTTCATCTCTCAAGTCTTTCT	1388
1374	Db	GTGGAAATTTTACCTTTTGGTTTCAATCTTTATGAAATGTATTTCATCTCTCAAGTCTTTCT	1433
1381	Qy	GGGCATATAAGTCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATTCCTGTGCA	1444
1434	Db	GGGCATATAAGTCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATTCCTGTGCA	1499
1441	Qy	TTTGTCACTGTCTGTGCACTATTGTGTCACATATTTTCTACTAAATGCAGAGAATATACC	1500
1494	Db	TTTGTCACTGTCTGTGCACTATTGTGTCACATATTTTCTACTAAATGCAGAGAATATACC	1555
1501	Qy	GGTGGCAATGACAAGTTTCTCTCTGCTGCATCACTGCAATCTATGTTTACATGTATT	1566
1554	Db	GGTGGCAATGACAAGTTTCTCTCTGCTGCATCACTGCAATCTATGTTTACATGTATT	1613
1561	Qy	CTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCACCAATCATTTTTTACT	1622
1614	Db	CTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCACCAATCATTTTTTACT	1677
1621	Qy	TTTGGATATATGGCGTATTATTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACA	1688
1674	Db	TTTGGATATATGGCGTATTATTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACA	1733
1681	Qy	TGGGAACAAAGTGCCTTGTCTCGGAAAAATCTATACTAATGTGAAAAATGACTAGACACCA	1744
1734	Db	TGGGAACAAAGTGCCTTGTCTCGGAAAAATCTATACTAATGTGAAAAATGACTAGACACCA	1799
1741	Qy	AGAAAAACCTGGAACCTTTGGATCAATTTTTCTTTTTTCATAGGGGTGGAACTCTGCAACAGAAA	1800
1794	Db	AGAAAACTGGAACCTTTGGATCAATTTTTCTTTTTTCATAGGGGTGGAACTCTGCAACAGAAA	1855

RESULT, T 4

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US-10-616-263-25
; Sequence 25, Application US/10616263
; Publication No. US20040098276A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: Lavallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steinger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000103.5
; CURRENT APPLICATION NUMBER: US/10/616,263
; CURRENT FILING DATE: 2003-07-08
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-616-263-25

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	Query Match.	99.7%;	Score 1794.4;	DB 16;	Length 3370;
	Best Local Similarity	99.9%;	Pred. No. 0;		
	Matches 1795;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;
QY	5	CGCGCTGGCTGCTGCTGCTGCTGCTGCCCGGACCCGGCGACGAGCAGCAGCAACACAC	64		
DB	1	CGGCGTGGCTGCTGCTGCTGCTGCTGCCCGGACCCGGCGGACGAGCAGCAGCAACAC	60		
QY	65	GTATCAAGATAAAGAGGAAAGTTGCTTATGGATGAATACTGTTGGGCGCTACCAATAATCG	124		
DB	61	GTATCAAGATAAAGAGGAAAGTTGCTTATGGATGAATACTGTTGGGCGCTACCAATAATCG	124		
QY	125	TCAAGAAACATATAAGTACTTTTCACATTCCTGCTGGGGTCAAAAAAGCTATCAG	184		
DB	121	TCAAGAAACATATAAGTACTTTTCACATTCCTGCTGGGGTCAAAAAAGTATCAG	180		
QY	185	TCATTACCATGAAACTCTGGGAGAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCT	244		
DB	181	TCATTACCATGAAACTCTGGGAGAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCT	240		
QY	245	GGATATTAAATTTAAAGATGATGATGCCAGCCACCTACTGTGAAATTCGATTTAGATAA	304		
DB	241	GGATATTAAATTTAAAGATGATGATGCCAGCCACCTACTGTGAAATTCGATTTAGATAA	300		
QY	305	AGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACAGATGTACAT	364		
DB	301	AGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACAGATGTACAT	360		
QY	365	AGATGATTTACCANTATGGGATATGTTGGTGAGCGTGATGAANAATCGAGAGATTACTA	424		
DB	361	AGATGATTTACCANTATGGGATATGTTGGTGAGCGTGATGAANAATCGAGAGATTACTA	420		
QY	425	TCTTTGGACCTATAAAAAAATCTTGAATAGGTTTTTAATGGAAATCGAAATTTGTTGATGTTAA	484		
DB	421	TCTTTGGACCTATAAAAAAATCTTGAATAGGTTTTTAATGGAAATCGAAATTTGTTGATGTTAA	480		
QY	485	TCTAACTAGTGAAGGAAAGGTGAACCTGGTTCGAAATCTAAATTCAGATTCGATATTC	544		
DB	481	TCTAACTAGTGAAGGAAAGGTGAACCTGGTTCGAAATCTAAATTCAGATTCGATATTC	540		
QY	545	AGTAAAAATGAAAAAAGTCAGATGTGAAATTTGAAGATCGAATTTGCACAAATATCTTGATCC	604		

541	DB	AGTAAATGGAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCC	600
605	QY	GTCCTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCTTCAATGATGGTAT	664
601	DB	GTCCTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCTTCAATGATGGTAT	660
665	QY	CTTCTCGGTGGGCTTAGTTTTCAATGATTTTTAAATGAGAACATTAAGAAAAGATATGCTCG	724
661	DB	CTTCTCGGTGGGCTTAGTTTTCAATGATTTTTAAATGAGAACATTAAGAAAAGATATGCTCG	720
725	QY	GTCAGTAAAGAGGAAAGATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATG	784
721	DB	GTCAGTAAAGAGGAAAGATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATG	780
785	QY	GAACACAGGTGATGGAGATGATATTAGACCATCAAGTCACCCACTGATATTTTCCCTCTCT	844
781	DB	GAACACAGGTGATGGAGATGATATTAGACCATCAAGTCACCCACTGATATTTTCCCTCTCT	840
845	QY	GATTGGTTCGGATGTCAGATATTTGCTGTCTCTCATCGTTATTTATTTGTCGAATGAT	904
841	DB	GATTGGTTCGGATGTCAGATATTTGCTGTCTCTCATCGTTATTTATTTGTCGAATGAT	900
905	QY	AGAAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCATGCTGTC	964
901	DB	AGAAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCATGCTGTC	960
965	QY	TACGTCCTCAGTGAATGGTTTTTTTGGAGAACTCTGATGCTTAGCAAGGAGGAGGAG	1024
961	DB	TACGTCCTCAGTGAATGGTTTTTTTGGAGAACTCTGATGCTTAGCAAGGAGGAGGAG	1020
1025	QY	ATGATAAAGCAGATGTTTATTTGGGCGATTCCTTATCCAGCTATGGTGTGGCACTGC	1084
1021	DB	ATGATAAAGCAGATGTTTATTTGGGCGATTCCTTATCCAGCTATGGTGTGGCACTGC	1080
1085	QY	CTTCTTCATCAATTCATAGCCATTTATACCATGCTTCAAGGCCATTCCTTTTGGAAAC	1144
1081	DB	CTTCTTCATCAATTCATAGCCATTTATACCATGCTTCAAGGCCATTCCTTTTGGAAAC	1140
1145	QY	AATGGTGGCGGTTGTTGTCATCTGTTTTTTTGTATTTCTTCCTCTAAATCTTGTTGGTAC	1204
1141	DB	AATGGTGGCGGTTGTTGTCATCTGTTTTTTTGTATTTCTTCCTCTAAATCTTGTTGGTAC	1200
1205	QY	AATACTTGGCGGAAATCTGTACGGTCAGGCCACTTTCTTGTGCTGTCATGCTGTGCC	1264
1201	DB	AATACTTGGCGGAAATCTGTACGGTCAGGCCACTTTCTTGTGCTGTCATGCTGTGCC	1260
1265	QY	TCGTCCTATACCGAGAAAAGTTTTCATGGAGCCTGGGTTATGTTTTCCTGCTGGTGG	1324
1261	DB	TCGTCCTATACCGAGAAAAGTTTTCATGGAGCCTGGGTTATGTTTTCCTGCTGGTGG	1320
1325	QY	AAATTTTACCTTTTGGTTTCAATCTTTATTTGAAATGATTTTCACTTCCAGCTCTTTCTGGGC	1384
1321	DB	AAATTTTACCTTTTGGTTTCAATCTTTATTTGAAATGATTTTCACTTCCAGCTCTTTCTGGGC	1380
1385	QY	ATATAAGATCTATATGTCTATGGCTTCATGATGCTGGTGTCTGGTTATCCTGTGCATTTG	1444
1381	DB	ATATAAGATCTATATGTCTATGGCTTCATGATGCTGGTGTCTGGTTATCCTGTGCATTTG	1440
1445	QY	GACTGTCTGTGACTATTTGTCGCAATATTTTCTACTAAATGCAAGATTAACCGGTG	1504
1441	DB	GACTGTCTGTGACTATTTGTCGCAATATTTTCTACTAAATGCAAGATTAACCGGTG	1500
1505	QY	GCAATGCAAGTTTTTCTCTGCTGCACTCAACTGCAATCTATGTTTACATGATTTTCTTT	1564
1501	DB	GCAATGCAAGTTTTTCTCTGCTGCACTCAACTGCAATCTATGTTTACATGATTTTCTTT	1560
1565	QY	TTACTACTATTTTTTCAAAACAAAGATGATGCTTATTTTCAAAACATCATTTTTTCTTTGG	1624
1561	DB	TTACTACTATTTTTTCAAAACAAAGATGATGCTTATTTTCAAAACATCATTTTTTCTTTGG	1620
1625	QY	ATATATGGCGGTATTTAGCACACGCTTTGGGGATAATGTGTGGAGCATTTGGTTACATGGG	1684
1621	DB	ATATATGGCGGTATTTAGCACACGCTTTGGGGATAATGTGTGGAGCATTTGGTTACATGGG	1680

Db 1513 TTTCTCTGCTGATGCACTCAATCTATGTTTACATGATATTCCTTTTACTACTATTTT 1572
Qy 1578 TTCAAAACAAAGATGATGCTTATTTTCAAAACATCAATTTACTTTGGATATATGGCGTA 1637
Db 1573 TTCAAAACAAAGATGATGCTTATTTTCAAAACATCAATTTTACTTTGGATATATGGCGTA 1632
Qy 1638 TTTAGCACAGCCTTGGGGAATATGTTGGAGCGATTTGTTTACATGGGAACAAGTGCCCTTT 1697
Db 1633 TTTAGCACAGCCTTGGGGAATATGTTGGAGCGATTTGTTTACATGGGAACAAGTGCCCTTT 1692
Qy 1698 GTCCGAAAAATCTATACTAATGTGAAAAATGACTAGAGACCCAGAAAAACCTGGAACTTTT 1757
Db 1693 GTCCGAAAAATCTATCTAATGTGAAAAATGACTAGAGACCCAGAAAAACCTGGAACTTTT 1752
Qy 1758 GGATCAATTTCTTTTTCATAGGGGTGGAACCTTGACAGCAAAA 1800
Db 1753 GGATCAATTTCTTTTTCATAGGGGTGGAACCTTGACAGCAAAA 1795

RESULT 6
US-10-277-802-29
; Sequence 29, Application US/10277802
; Publication No. US20030190707A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 17 Human Secreted Proteins
; FILE REFERENCE: PS723P1
; CURRENT APPLICATION NUMBER: US/10/277,802
; CURRENT FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 09/915,582
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: PCT/US01/01431
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/231,968
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 3076
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (3064)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-277-802-29

Query Match 97.4%; Score 1753; DB 15; Length 3076;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 1762; Conservative 3; Mismatches 18; Indels 0; Gaps 0;

Qy 18 CTGCTGCTGCTGCCCCGACCCGGCGACAGCAGCAAGACACACGATATCAAGATAAA 77
Db 13 CTGCAGGTACCGGTCGCGGAATTCGCGGTGACSCACGCGMCGCACGTATCAAGATAAA 72
Qy 78 GAGGAAGTTGCTTATGATGAATACTGTTGGGCCCTACCATATCGTCAAGAAAAATAT 137
Db 73 GAGGAAGTTGCTTATGATGAATACTGTTGGGCCCTACCATATCGTCAAGAAAAATAT 132
Qy 138 AAGTACTTTTTCACCTTCCATCTGTTGGGGTCAAAAAAAGATATCACTCAATACCATGAA 197
Db 133 AAGTACTTTTTCACCTTCCATCTGTTGGGGTCAAAAAAAGATATCACTCAATACCATGAA 192
Qy 198 ACTCTGGAGAGACACTTCAAGGGGTTGAATTTAGTGTCTGGATATTAATTT 257
Db 193 ACTCTGGAGAGACACTTCAAGGGGTTGAATTTAGTGTCTGGATATTAATTT 252
Qy 258 AAAGATGATGTGATGCCAGCCACTTACTGTGAAATTCATTTAGATAAAGAAAAAGAGAT 317

Db 253 AAAGATGATGTGATGCCAGCCACTTTACTGTGAAATTTGATTAGATAAAGAAAGAGAT 312
Qy 318 GCATTTGTATATGCGCATAAAAAATCAATTACTGTGTACAGATGTATACATAGATGATTTACA 377
Db 313 GCATTTGTATATGCGCATAAAAAATCAATTACTGTGTACAGATGTATACATAGATGATTTACA 372
Qy 378 ATATGGGGTATTTGTTGGTGAGGCTCATGAAAATGAGAAAGATTACTATCTTTGGACCTAT 437
Db 373 ATATGGGGTATTTGTTGGTGAGGCTCATGAAAATGAGAAAGATTACTATCTTTGGACCTAT 432
Qy 438 AAAAAACCTTGAATAGGTTTAAATCGAAATCGAATTTGTTGATGTTTAAATCTAATAGTAA 497
Db 433 AAAAAACCTTGAATAGGTTTAAATCGAAATCGAATTTGTTGATGTTTAAATCTAATAGTAA 492
Qy 498 GGAAGGTTGAACCTGGTTCCAAATACTAAAAATCCAGATGTATATTCAGTAAAAATGGAAA 557
Db 493 GGAAGGTTGAACCTGGTTCCAAATACTAAAAATCCAGATGTATATTCAGTAAAAATGGAAA 552
Qy 558 AAGTCAGATGTGAAAATTTGAAGATCGAATTTGACAAATATCTTTGATCCGCTCTTTTTCAA 617
Db 553 AAGTCAGATGTGAAAATTTGAAGATCGAATTTGACAAATATCTTTGATCCGCTCTTTTTCAA 612
Qy 618 CATCGGATTCATTTGTTTCAATTTTCACTCTCATGATGGTGATCTTCTTGGTGGGC 677
Db 613 CATCGGATTCATTTGTTTCAATTTTCACTCTCATGATGGTGATCTTCTTGGTGGGC 672
Qy 678 TTAGTTTCAATCATTTTAAATGAGAACATTAAAGAAAGATTATGCTCGGTACAGTAAAGAG 737
Db 673 TTAGTTTCAATCATTTTAAATGAGAACATTAAAGAAAGATTATGCTCGGTACAGTAAAGAG 732
Qy 738 GAAGAAATGGATGATATGGATAGAGACCTAGAGATGAATATGGATGGAACACAGGTGCAT 797
Db 733 GAAGAAATGGATGATATGGATAGAGACCTAGAGATGAATATGGATGGAACACAGGTGCAT 792
Qy 798 GGAGATGATTTTAGACCATCAAGTCACCCACTGATATTTTCTCTCTGATTTGGTCTCGA 857
Db 793 GGAGATGATTTTAGACCATCAAGTCACCCACTGATATTTTCTCTCTGATTTGGTCTCGA 852
Qy 858 TGTCAAGATTTTGTCTGCTCTCATCGTTATTTATTTGTTGCAATGATAGAGATTTATAT 917
Db 853 TGTCAAGATTTTGTCTGCTCTCATCGTTATTTATTTGTTGCAATGATAGAGATTTATAT 912
Qy 918 ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTTCTATGCTGCTACGCTCTCAGTG 977
Db 913 ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTTCTATGCTGCTACGCTCTCAGTG 972
Qy 978 AATGTTATTTTGGAGGAAGTCTGTATGCTAGCAAGAGAGAGAGATGGAATAAGCAG 1037
Db 973 AATGTTATTTTGGAGGAAGTCTGTATGCTAGCAAGAGAGAGAGATGGAATAAGCAG 1032
Qy 1038 ATGTTTATTTGGGGCATTCCTTATCCAGCTATGGTGTGTGGCAGTCCCTTCTTCATCAAT 1097
Db 1033 ATGTTTATTTGGGGCATTCCTTATCCAGCTATGGTGTGTGGCAGTCCCTTCTTCATCAAT 1092
Qy 1098 TTCATAGCCATTTATTCACGCTTCAAGAGCCATTCCTTTTGGACAAATGGTGGCCGCT 1157
Db 1093 TTCATAGCCATTTATTCACGCTTCAAGAGCCATTCCTTTTGGACAAATGGTGGCCGCT 1152
Qy 1158 TGTGTCATCTGTTTTTTTTTGTATTTCTCTCTTAAATCTTTGTTGGTACAATACTTTGGCCGA 1217
Db 1153 TGTGTCATCTGTTTTTTTTTGTATTTCTCTCTTAAATCTTTGTTGGTACAATACTTTGGCCGA 1212
Qy 1218 ATCTGTGAGGTACGCCCAACTTCTTGTGTGCTCAATGCTGCTGCTCGCTCTATACGG 1277
Db 1213 ATCTGTGAGGTACGCCCAACTTCTTGTGTGCTCAATGCTGCTGCTCGCTCTATACGG 1272
Qy 1278 GAGAAAAATGGTTTATGGAGCCTCGGGTTATTTTGTCTGGGTGGAAATTTTACCTTTT 1337
Db 1273 GAGAAAAATGGTTTATGGAGCCTCGGGTTATTTTGTCTGGGTGGAAATTTTACCTTTT 1332
Qy 1338 GGTTCAACTTTTATTTGAAATGATTTTCACTTCAGTCTTTCTGGGCATATTAAGATCTAT 1397
Db 1333 GGTTCAACTTTTATTTGAAATGATTTTCACTTCAGTCTTTCTGGGCATATTAAGATCTAT 1392


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QY 1077 GGCACGCTTC-----TTCATCAATTTTCATAGCAATTTATACCATGCTTCAA 1125
Db 1144 GTTGTGGCAACTGGCCCTCTTTTCATCAATTTTCATAGCAATTTATACCATGCTTCAA 1203
QY 1126 GAGCCATTCCTTTTGGAAAC-AATGGTGGCCGCTTTTGTGTCATCTG-TTTTGTGTATCT 1183
Db 1204 GAGCCATTCCTTTTGGGCAAAATGGTGGCGCTTTGTGTCATCTCTTTTGTGTATCT 1263
QY 1184 TCCTCTAAATCTTGTGTAGCAATTTGGCGGAAATCTGTCAGGTGAGCCCACTTTC 1243
Db 1264 TCCTCTAAATCTTGTGTAGCAATTTGGCGGAAATCTGTCAGGTGAGCCCACTTTC 1323
QY 1244 TTGTGCTGCAATGCTGCTC-GTCCATATACCGGAGA-----AAAAATGGTTCATGGAG 1298
Db 1324 TTGTGCTGCAATGCTGCTCCTGCTCTATACCGGAGACACACATGGTACATGGAG 1383
QY 1299 CTTGGGTTATGTTTGGCTGGGTGGAATTTTACCTTTTGGTTCATCTTTTATGAAATG 1358
Db 1384 CTTGGGTTATGTTTGGCTGGGTGGAATTTTACCTTTTGGTTCATCTTTTATGAAATG 1443
QY 1359 TATTTTCATCTTCAGCTCTTTCTGGGCAATATAGATCTATTATGCTATGCTTCATGATG 1418
Db 1444 TATTTTCATCTTCAGCTCTTTCTGGGCAATATAGATCTATTATGCTATGCTTCATGATG 1503
QY 1419 CTGGTGGTATGTTCTGCTGCAATTTGACTGCTGTGTGACTATTGTGTGCAATATTTT 1478
Db 1504 CTGGTGGTATGTTCTGCTGCAATTTGACTGCTGTGTGACTATTGTGTGCAATATTTT 1563
QY 1479 CTACTAATGAGAGATTCGGTGGCAATGGACAGATTTTCTCTGCTGCTGATCAACT 1538
Db 1564 CTACTAATGAGAGATTCGGTGGCAATGGACAGATTTTCTCTGCTGCTGATCAACT 1623
QY 1539 GCAATCTATGTTTACATGATTTCTTTTACTACTATTTTTT-----CAAAACAAAGAT 1591
Db 1624 GCAATCTATGTTTACATGATTTCTTTTACTACTATTTTTTTCGAAACAAAGATGAT 1683
QY 1592 GTATGGCTTATTTCAACATCATTTTACTTTGGATATATGCG--GGTATTTAGCAGGCC 1649
Db 1684 GTGCTTATGTTCAACATCATTTTACTATTTGGATATATGCGGTGATATATAGCAGATC 1743
QY 1650 TTGGGATAATGTGTG-----GAGCGATTGTTTACATGGGAACAGTGCCTTTTGTCCGAAA 1705
Db 1744 CTTGGGATATATGTGTGGACGATATGTTTACATGGGAACAGTGCCTTTTGTCCGAAA 1803
QY 1706 AATCTATCTAATGTGAAATTTAGTACAGACCCCAAGAAACCTGTGAACCTTT-GGATCAA 1764
Db 1804 AATCTATCTAATGTGAAATTTAGTACAGACCCCAAGAAACCTGTGAACCTTTGGATCAA 1863
QY 1765 TTTCTTTTTCATAGGGT-GGAACTTGCACAGCAAA 1800
Db 1864 TTTCTTTTTCATAGGGTGGGAATTTGCACAGCAAA 1900

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RESULT 9

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US-10-264-237-1414
; Sequence 1414, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Bires et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1414
; LENGTH: 1070
; TYPE: DNA
; ORGANISM: Homo sapiens

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; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (34)..(34)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (40)..(40)
; OTHER INFORMATION: n equals a,t,g, or c
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; NAME/KEY: misc_feature
; LOCATION: (525)..(525)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (529)..(529)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (557)..(557)
; OTHER INFORMATION: n equals a,t,g, or c
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; NAME/KEY: misc_feature
; LOCATION: (837)..(837)
; OTHER INFORMATION: n equals a,t,g, or c
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; NAME/KEY: misc_feature
; LOCATION: (912)..(912)
; OTHER INFORMATION: n equals a,t,g, or c
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; NAME/KEY: misc_feature
; LOCATION: (956)..(956)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (965)..(966)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1025)..(1025)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1047)..(1047)
; OTHER INFORMATION: n equals a,t,g, or c
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US-10-264-237-1414

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Query Match      39.8%; Score 716.4; DB 16; Length 1070;
Best Local Similarity 92.6%; Pred. No. 6.9e-166;
Matches 803; Conservative 0; Mismatches 11; Indels 53; Gaps 3;

QY 987 TTGAGGAGTCTCTATGCTAGACAGGAGGAGGAGATGATTAAGACAGATGTTTATT 1046
Db 20 TTGAGGAGTCTCTATGCTAGACAGGAGGAGGAGATGATTAAGACAGATGTTTATT 79
QY 1047 GGGGCATTCCTTATCCAGCTATGCTGTGSCATGCTCTTCTCATCAATTTTCATAGCC 1106
Db 80 GGGGCATTCCTTATCCAGCTATGCTGTGSCATGCTCTTCTCATCAATTTTCATAGCC 139
QY 1107 ATTTATACCATGCTTCAAGAGCCATTCCTTTTGGAAACAATGGTGGCGCTTTGTGCATC 1166
Db 140 ATTTATACCATGCTTCAAGAGCCATTCCTTTTGGAAACAATGGTGGCGCTTTGTGCATC 199
QY 1167 TGTCTTTTGTATCTTCTCTAAATCTTGTGTGTAATACTTGGCCGAAATCTGTCA 1226
Db 200 TGTCTTTTGTATCTTCTCTAAATCTTGTGTGTAATACTTGGCCGAAATCTGTCA 259
QY 1227 GGTACGCCCAACTTTCTTGTGCTGCTCAATGCTGTGCTCTCTATACCGGAGAAAAA 1286
Db 260 GGTACGCCCAACTTTCTTGTGCTGCTCAATGCTGTGCTCTCTATACCGGAGAAAAA 319
QY 1287 TGGTTTCATGGAGCCCTGGGTTATGTTTGGCTGGTGAATTTTACCTTTTGGTTCAATC 1346
Db 320 TGGTTTCATGGAGCCCTGGGTTATGTTTGGCTGGTGAATTTTACCTTTTGGTTCAATC 379

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QY	1347	TTTATTGAAATGATTTCATCTTCACGCTCTTCTGGGCATATAAGACTCTATTATGCTAT	1406
DB	380	TTTATTGAAATGATTTCATCTTCACGCTCTTCTGGGCATATAAGACTCTATTATGCTAT	439
QY	1407	GGCTTCATGATGCTGGTGGTCTGGTTATCCTGTGCAATTGTGACTGCTGTGTGACTATTGTG	1466
DB	440	GGCTTCATGATGCTGGTGGTCTGGTTATCCTGTGCAATTGTGACTGCTGTGTGACTATTGTG	499
QY	1467	TGCACATATTTTCTACTAAATGACAGAA - GATTACCGGT-----	1503
DB	500	TGCACATATTTTCTACTAAATGACAGAAATTTACCGGTGGCCATTCATTCAAAAGNAG	559
QY	1504	-----GGCAATGGACAAGTTTCTCTCTCTGCTGCATC	1534
DB	560	ATTATTATCTTCTTCCGCCCTCCGCCACCGCAATGGACAAGTTTCTCTCTGCTGCATC	619
QY	1535	AAGTGCACATCTATGTTTACATGATATTCCTTTTACTACTATTTTTTCAAAACAAGATGA	1594
DB	620	AAGTGCACATCTATGTTTACATGATATTCCTTTTACTACTATTTTTTCAAAACAAGATGA	679
QY	1595	TGGCTTATTTTCAAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTT - GG	1653
DB	680	TGGCTTATTTTCAAAACATCATTTTACTTTGGATATATGGCGGTATTTAGTACAGCCTTGGG	739
QY	1654	GGATATATGTTGGAGCGAATTGGTTTACATGGGAACAAGTGCCTTTGTCGCCGAAAATCTATA	1713
DB	740	GGATATATGTTGGAGCGAATTGGTTTACATGGGAACAAGTGCCTTTGTCGCCGAAAATCTATA	799
QY	1714	CTAATGTGAAAAATTGACTAGAGACCCCAAGAAAAACCTGGAACTTTGGGATCAATTTCTTTTT	1773
DB	800	CTAATGTGAAAAATTGACTAGAGACCCCAAGAAAAACCTGNAACCTTTGGGATCAATTTCTTTTT	859
QY	1774	CATAGGGGTGGAACCTTGCA CAGCAAAA	1800
DB	860	CATAGGGGTGGAACCTTGCA CAGCAAAA	886

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RESULT 10
US-09-915-582-13
; Sequence 13, Application US/09915582
; Patent No. US20020120103A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 17 Human Secreted Proteins
; FILE REFERENCE: PS723P1
; CURRENT APPLICATION NUMBER: US/09/915,582
; CURRENT FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: PCT/US01/01431
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/479,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/231,968
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 1867
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-915-582-13

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	Query Match	34.4%	Score 619.6	DB 9	Length 1867
	Best Local Similarity	99.4%	Prod. No. 7e-142		
	Matches 622	Conservative	0	Mismatches 4	Indels 0
	Gaps	0			
Qy	1175	TGTTATCTCTCCTAAATCTTTGTGGTACAAATCTTGGCCGCAAAATCTGTCAAGTCACCC	1234		
Db	19	TGTGCCCTCTCCTAAATCTTTGTGGTACAAATCTTGGCCGCAAAATCTGTCAAGTCACCC	78		
Qy	1235	CAACTTTTCTGTCTGTGTCGTCGTCCTATACCGGAGAAAAAATGTTTCAT	1294		

Db	79	CAACTTTCCTTGCTGCTGCTCAATGCTGCTGCTGCTGCTATACCGGAGAAAAATGGTTCAT	138
Qy	1295	GGAGCCTCGCGTTATTGTTTSCCTGGGTGGAAATTTTCACTTTTGGTTCAATCTTTATTGA	1354
Db	139	GGAGCCTCGCGTTATTGTTTGGCTGGGTGGAAATTTTACCTTTTGGTTCAATCTTTATTGA	198
Qy	1355	AATGTATTTCATCTTCAACGCTTTCTTGGGCATATAGATCTATATGTCTATGCTTCAT	1414
Db	199	AATGTATTTTCATCTTCAACGCTTTCTTGGGCATATAAGATCTATATGCTATGGCTTCAT	258
Qy	1415	GATGCTGGTCTGGTTATCTCTGTGCATTTGTGACTGTCTGTGCACTATTGTGTCACATA	1474
Db	259	GATGCTGGTCTGGTTATCTCTGTGCATTTGTGACTGTCTGTGTCACATA	318
Qy	1475	TTTTTCTACTAAATGCAGAAATTAACGGTGGCAATGACACAAAGTTTCTCTCTGCTGCATC	1534
Db	319	TTTTTCTACTAAATGCAGAAATTAACGGTGGCAATGACACAAAGTTTCTCTCTGCTGCATC	378
Qy	1535	AACTGCAATCTATGCTTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA	1594
Db	379	AACTGCAATCTATGCTTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA	438
Qy	1595	TGGCTTATTTCAACATCAATTTTACTTTTGGATATATGGCGTATTTAGCACAGCCTTGGG	1654
Db	439	TGGCTTATTTCAACATCAATTTTACTTTGGATATATGGCGTATTTAGCACAGCCTTGGG	498
Qy	1655	GATAAATGTGGAGCGAATCGTTTACATGGGAAACAAAGTGCCTTTTGTCCGAAAAATCTATAC	1714
Db	499	GATAAATGTGGAGCGAATCGTTTACATGGGAAACAAAGTGCCTTTTGTCCGAAAAATCTATAC	558
Qy	1715	TAATGTGAAAATTGACTAGACACCAAGAAAAAAGTGGAACTTTGGATCAATTTCTTTTTC	1774
Db	559	TAATGTGAAAATTGACTAGACACCAAGAAAAAAGTGGAACTTTGGATCAATTTCTTTTTC	618
Qy	1775	ATAGGGGTGGAACCTTGCACAGCAAAA	1800
Db	619	ATAGGGGTGGAACCTTGCACAGCAAAA	644
RESULT 11			
US-10-277-802-13			
; Sequence 13, Application US/10277802			
; Publication No. US20030190707A1			
; GENERAL INFORMATION:			
; APPLICANT: Rosen et al.			
; TITLE OF INVENTION: 17 Human Secreted Proteins			
; FILE REFERENCE: PS723P1			
; CURRENT APPLICATION NUMBER: US/10/277,802			
; CURRENT FILING DATE: 2002-10-23			
; PRIOR APPLICATION NUMBER: 05/915,582			
; PRIOR FILING DATE: 2001-07-27			
; PRIOR APPLICATION NUMBER: PCT/US01/01431			
; PRIOR FILING DATE: 2001-01-17			
; PRIOR APPLICATION NUMBER: 60/179,065			
; PRIOR FILING DATE: 2000-01-31			
; PRIOR APPLICATION NUMBER: 60/180,628			
; PRIOR FILING DATE: 2000-02-04			
; PRIOR APPLICATION NUMBER: 60/231,968			
; PRIOR FILING DATE: 2000-09-12			
; NUMBER OF SEQ ID NOS: 97			
; SOFTWARE: PatentIn Ver. 2.0			
; SEQ ID NO 13			
; LENGTH: 1867			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-10-277-802-13			

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RESULT 11
US-10-277-802-13
; Sequence 13, Application US/10277802
; Publication No. US20030190707A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 17 Human Secreted Proteins
; FILE REFERENCE: PS723P1
; CURRENT APPLICATION NUMBER: US/10/277, 802
; CURRENT FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 09/915,582
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: PCT/US01/01431
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/231,968
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 1867
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-277-802-13

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Query Match 34.4%; Score 619.6; DB 15; Length 1867;
Best Local Similarity 99.4%; Pred. No. 7e-142;
Matches 622; Conservative 0; Mismatches 4; Indels 0; Gaps 0

Qy 1175 TGTATTCTTCTCTAAATCTTGTTGGTACAACTTGGCGGAAATCTGTCAAGTCACCC 1234


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QY 1161 TGCATCTGTTTTTTTGTGTTATCTTCCTCTAAATCTTTGTTGGTACAATACTTGGCGAAAT 1220
Db 1413 GTACTTTGGGCATCATATCTTTCCGTTGGTCTTTTGGAACTGTTGTTGGTAGAAAC 1472
QY 1221 CTGTCAGGTGAGCCCACTTCTTGTGCGTCAATGCTGCTCCTCTATACCGGAG 1280
Db 1473 TGGAGTGGTCTCCGACAAATCCCTGCGAGTAGAAGACTATTCACGGCTATTCCTGAG 1532
QY 1281 AAAAAATGGTTCATGGAGCCTGGGTTAATTTTGGCTGGTGGAAATTTACCTTTTGT 1340
Db 1533 AAGAAGTGGTACCTTACACCTTCTGTCTCATCTCATTTGATGGTGGCTGCTTCCCTTTGGC 1592
QY 1341 TCAATCTTTATGMAATGATTAATCACTTCACGCTCTTTCTGGGCATATAAGATCTAAT 1400
Db 1593 AGTATCTTCATTGAGATGTACTTGGTGTTCACATCATCTGSAACATATAAGGTGTATAT 1652
QY 1401 GTCTATGGTCTCATGATGCTGGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1460
Db 1653 GTCTACGGTTCATGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1712
QY 1461 ATTGTGTCACATATTTCTTAAATGCAAGATATACCGGTGGCAATGGACAAGTTT 1520
Db 1713 ATTGTGGGTACTTATTTCTTGTGCTGAACGCGGAGAACTATCACTGGCAATGGAGCTGTT 1772
QY 1521 CTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTTATTCCTTTTACTACTATTTTC 1580
Db 1773 TCCTCTCGGGCGTCAACCGCTTTGTATGTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1832
QY 1581 AAAACAAAGATGATGCTTATTTCAAACATCATTTTACTTTTGGATATATGGCGGTATT 1640
Db 1833 AAGACAAAGATGTCAGCGCTCTTTTCAGACAAGTTTCTACTTTGGTTACACACTGATGTT 1892
QY 1641 AGCACGCTTGGGATAATGTTGGAGCATGTTGTTACATGAGGAACAAGTGGCTTTGTC 1700
Db 1893 TGCCTTGGTCTAGGCATCTTTTGTGGTCTATTGGGTATCTAGGGTCAACCCCTTTTGTA 1952
QY 1701 CGAAAAATCTATCTAATGTAATGAAATGACTAGAGACC 1738
Db 1953 AGGAGATCTACAGAAATACAAATGATGATTAATCCC 1990

RESULT 13
US-10-739-930-4365
; Sequence 4365, Application US/10739930
; Publication No. US2004021690A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 4365
; LENGTH: 2355
; TYPE: DNA
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-CLUSTER2111_1
US-10-739-930-4365

Query Match 32.3%; Score 581; DB 15; Length 2355;
Best Local Similarity 60.0%; Pred. No. 2.6e-132;
Matches 1025; Conservative 0; Mismatches 675; Indels 9; Gaps 3;

QY 30 CTGCCCCGGACCCGGGCGGAGCAGACGAACACACGTTATCAAGTAAAGAGGAGTTGTC 89
Db 186 CCGTCCGCGGCTCCGCTCAGAGTCTGACACAAAGTACAAAGCTGGAGATTCAGTTAAG 245
QY 90 TTATGGATGAATAGTGTGGCCCTACCAATATCGTCAAGAAACATATAAGTACTTTTCA 149
Db 246 CTCTGGGTGAATAAGTTGGACCTTACAATATCTCTCAAGAACTTACAAATTATCACAGC 305
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QY 150 CTTCCATTTCTGTGGGGTCAAAAAAAGTATCATGTCATTTACCATGAACCTCTGGGAA 209
Db 306 CTTCCATTTTGTCAACCATCTGAGAACCT--GGGCATAGTGGGGTGGTCTTTGGAGAA 362
QY 210 GCACCTTCAAGGGGTGAATTTAGTGGTCTGGATATTAATTTAAAGATGATGTG 269
Db 363 GTCCCTGGGTGGGAATGAGTTGATTTGATAGTCAGCTTGACATAAAGTCTTTAAGAAATGTG 422
QY 270 ATGCCAGCCACTTACTGTGAAATTTAGATTAGATAAGAAAGAGAGATGCAATTTGTATAT 329
Db 423 GAAAGGGATCCATTTTGACACTGGAACTAGATCCCAAGAGACTCAACAAATTTGCTGAT 482
QY 330 GCCATAAAATATCATTTACTGCTGACAGATGACATAGATGATTTTACCAATATGGGTATT 389
Db 483 GCCATTGAAGACTCGTACTGCTGTTTGAATTTTCAATGATGATCTGCCCTCTTTGGGGTTTT 542
QY 390 GTTGTGAGGCTGATGAAAA--TGGAGAAGATTACTATCTTTTGGACCTATPAAAAAATT 446
Db 543 GTTGAGAGACTGACAAAAACAGTGAACCAAGCACTATCTTTACGACACAAAGACATT 602
QY 447 GAATAGGTTTTTAATGGAAATCGAATTTGTGATGTTAATCTAACTAGTAGAAGAAAGTG 506
Db 603 CTTGTAAGATCAACGATPAAACAGGATTAATCATGTTAATCTCACCCAAAGATCTCCTTAAG 662
QY 507 AAACCTGGTTCAAATATCAAAATCCAGATGTCATATTCAGTAAATGAAAAAGTCAAT 566
Db 663 CTCCTTGACGTTGTAAGAACTTGACATGACATATTCAGCGAAGTGGTATCCGACAGAT 722
QY 567 GTGAAATTTGAAGATCGAATTTGACAAATATCTTGATCCGTCCTTTTTCACATCGGATT 626
Db 723 GTTTCATTTGACGCGGTTTTGAAGTTTACCTGGACTATCCTTTCTTTGAAACCCAGATT 782
QY 627 CATTCGTTTTCAATTTTCAACTCCTTTCATGATGGTGAATCTTTGGTGGGCTTAGTTTCA 686
Db 783 CACTGGTCTCCATTTTCAATTTCTTTCAATGATGTTATTTTCTCACTGGTTTGGTTTCA 842
QY 687 ATGATTTTATAGAACATTTAAGAAAGATTTATGCTCGGTA--CAGTAAAGAGAGAA 743
Db 843 ATGATATTGATCGGAAACACTGAGAAATGATTTATGCAAAATATGCTGCTGATGATGAT 902
QY 744 ATGGATGATATGGATAGAGACTAGGAGATGAATGATGGAACACAGTGCATGAGAT 803
Db 903 CTAGAGTCACTGGAGAGAGATGTTAATGAGGAATCTGGGTGGAACCTTGTCAATGGTAT 962
QY 804 GTATTTAGACCATCAAGTCAOCCACTGATATTTCTCTCTGATTTGTTCTGGATGTCAG 863
Db 963 GTATTTGCTCTCTAGAACTTGACACTTCTTCTGCTCTTGTGGTATCGGCACCCAG 1022
QY 864 ATATTTGCTGTCTCTCATCGTTATTTATGTTGCAATGATAGAGATTTATATACTGAG 923
Db 1023 CTGGCAGCTCTTATCCTACTTGTGATTTGTTGGCCATCGTTGGCATGTTTATGTTGG 1082
QY 924 AGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGTACGTCCTCCAGTGAATG 983
Db 1083 CGAGGGCTATCATCACAACTTCAATCGTGTCTATGCTCTTACATCTTTTATTTCTGA 1142
QY 984 TATTTTGGAGGAGTCTGTATGCTAGACAAGAGAGAGATGGAATAAGACAGATGTTT 1043
Db 1143 TATGTTAGTGTGTTTGTACTCGAGGAATCGCGTAAAAAAGTGAATAAGGCTATGATC 1202
QY 1044 ATTTGGGATTCCTTTATCCAGCTATGTTGTGCGACTGCTTCTTCTCATCAATTTTCA 1103
Db 1203 CTTACAGCATCCCTTTTCCATCTTTGCACTTTGCAATTTGGCTTTGGACTGAATACA 1262
QY 1104 GCATTTTATTCATGCTTTCAAGAGCCATTCTTTTGGAAACAATGGTGGCCGTTTGTTC 1163
Db 1263 GCAATCTTATGGGTCATTAGCGCAATACCAATTTGGTACAACTGGTTGTCAATTTTGT 1322
QY 1164 ATCTGTTTTTGTATTTCTTCTCTAAATCTTGTGTTGTAATACTTTGGCGGAATCTG 1223
Db 1323 CTTTGGGCTTTTATATCTTTTCCACTGTTGCTTTTGGGAACGGTCTTGGTAGAAACATG 1382
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1159	TGCTATCTTCTACCGATCAATTAGCGGCAATACCAATTCGGCACAAATGTTGTCATGTTCTGT	1160
Qy	CATCTGTTTTTTTTTGTATTCTTCCTCTAAATCTTTGTTGGTACAATACTTGCCCGGAAATCT	1222
Db	TCCTTGGGCGCTTCATTTCTTTTCGGCTGGTCTCTCGGAACTGTTGTTGGTAGGAAC	1040
Qy	GTCAAGTACGCCAACTTTCTTGTGCTGTCAATGCTGTGCGCTGCTCTATATACCGAGAA	1282
Db	GAGTGGTGTCTTAAACAATCCCTGCCAGATAAGACTATTTCCACGGGCTATTCCAGAGAA	980
Qy	AAAATGTTTCATGGAGCGCTGGTTATTGTTTGCTGGGTGGAAATTTACCTTTTGGTTTC	1342
Db	GAGTGGTACTTACACCTTCTGTTATCTCATTCATGGGTGGGCTGCTTCCCTTTGGCAG	920
Qy	AATCTTTAATGAAATGTAATTCATCTTCCACGTCTTTCTGGGCATATAAGAACTCTAATATGT	1402
Db	TATCTTCATTTGAGATGTAATTTGTTGTTTCACTGCTCATTTCTGAACTACAAGGTTTATTATGT	860
Qy	CTATGGCTTCATGATGCTGGTGGTTATCTCTGTGCATTTGTGACTGCTCTGTGTGACTAT	1462
Db	CTACGGCTTCACTGCTGCTGCTTTTGTCATCTTCTTAATAGTTACAATCTGTGTGCACTAT	800
Qy	TGTGTGCACATATTTTCTACTAAATGCAGAAAGATTACCGGTGGCAATGGACAAGTTTCTT	1522
Db	TGTGGGTACTTAATTTCTTGTGTAATGCTGAGAACTATCATCGCAATGGACTCATTTTCT	740
Qy	CTCTGTGTCATCAACTGCAATCTAATGTTTACAATGATATCCCTTTTACTACTATTTTTTCAA	1582
Db	CTCTGTGTCATCAACTGCGTTTATATGTGTATCTATATTCCATCTACTACTATCATGTAAA	680
Qy	AACAAAGATGTATGGCTTAATTTCAACATCATTTTACTTTTGGATATATGGCGTATTATAG	1642
Db	GACAAAGATGTACAGTTTTTTTCCAGACGAGTTTCTCTTGGTTACACATTTGATGTTCTG	620
Qy	CACAGCCTTGGGGAATAATGTGTGGAGCGAATGGTTACATGGGAACAAGTGCCTTTGTCCG	1702
Db	CTTGTGCTAGGCATATCTTGTGTGTCTATTGGCTATCTAGGTCGAATCTTTTTTGTGAG	560
Qy	AAAAATCTACTAATGTGAAAAATTGACTAGA	1734
Db	GAGAAATCTACAGAAACATCAAAATGTGATTAGA	528

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RESULT 15
US-10-437-963-39405
/ Sequence 39405, Application US/10437963
/ Publication No. US20040123343A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhecu, Yihua
/ APPLICANT: Cao, Yongwei
/ APPLICANT: Wu, Wei
/ APPLICANT: Boukharov, Andrey A.
/ APPLICANT: Barbazuk, Brad
/ APPLICANT: Li, Ping
/ TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53221)B
/ CURRENT APPLICATION NUMBER: US/10/437,963
/ CURRENT FILING DATE: 2003-05-14
/ NUMBER OF SEQ ID NOS: 204966
/ SEQ ID NO 39405
/ LENGTH: 1899
/ TYPE: DNA
/ ORGANISM: Oryza sativa
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT4530_42949C.1
US-10-437-963-39405

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Query Match 31.6%; Score 568.8; DB 17; Length 1899;
Best Local Similarity 59.8%; Pred. No. 2.4e-129;
Matches 1011; Conservative 0; Mismatches 672; Indels 9; Gaps 3;

[illegible]

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 17, 2004, 17:15:52 ; Search time 31.2118 Seconds
(without alignments)
1223.869 Million cell updates/sec

Title: US-09-319-724B-14

Perfect score: 3089

Sequence: 1 AALWLLLLLPRTRADEHH.....IGMGTSAFVKIYTNVKID 576

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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- 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/1/iaa/6C_COMB.pep.*
- 6: /cgn2_6/ptodata/1/iaa/6D_COMB.pep.*
- 7: /cgn2_6/ptodata/1/iaa/6E_COMB.pep.*
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- 9: /cgn2_6/ptodata/1/iaa/6G_COMB.pep.*
- 10: /cgn2_6/ptodata/1/iaa/6H_COMB.pep.*
- 11: /cgn2_6/ptodata/1/iaa/6I_COMB.pep.*
- 12: /cgn2_6/ptodata/1/iaa/6J_COMB.pep.*
- 13: /cgn2_6/ptodata/1/iaa/6K_COMB.pep.*
- 14: /cgn2_6/ptodata/1/iaa/6L_COMB.pep.*
- 15: /cgn2_6/ptodata/1/iaa/6M_COMB.pep.*
- 16: /cgn2_6/ptodata/1/iaa/6N_COMB.pep.*
- 17: /cgn2_6/ptodata/1/iaa/6O_COMB.pep.*
- 18: /cgn2_6/ptodata/1/iaa/6P_COMB.pep.*
- 19: /cgn2_6/ptodata/1/iaa/6Q_COMB.pep.*
- 20: /cgn2_6/ptodata/1/iaa/6R_COMB.pep.*
- 21: /cgn2_6/ptodata/1/iaa/6S_COMB.pep.*
- 22: /cgn2_6/ptodata/1/iaa/6T_COMB.pep.*
- 23: /cgn2_6/ptodata/1/iaa/6U_COMB.pep.*
- 24: /cgn2_6/ptodata/1/iaa/6V_COMB.pep.*
- 25: /cgn2_6/ptodata/1/iaa/6W_COMB.pep.*
- 26: /cgn2_6/ptodata/1/iaa/6X_COMB.pep.*
- 27: /cgn2_6/ptodata/1/iaa/6Y_COMB.pep.*
- 28: /cgn2_6/ptodata/1/iaa/6Z_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3089	100.0	579	4	US-09-786-681A-4
2	3089	100.0	582	4	US-09-786-681A-2
3	1107	35.8	257	4	US-09-270-767-32308
4	950.5	30.8	625	3	US-08-959-004-10
5	843.5	27.3	663	3	US-08-959-004-5
6	694	22.5	667	3	US-08-959-004-11
7	628	20.3	133	4	US-09-270-767-44213
8	628	20.3	133	4	US-09-270-767-59636
9	613	19.8	111	4	US-09-513-999C-7579
10	580	18.8	218	4	US-09-270-767-46281
11	467	15.1	241	4	US-09-248-796A-20311
12	364	11.8	87	4	US-09-513-999C-7785
13	127	4.1	605	4	US-09-593-110-4773
14	120.5	3.9	513	4	US-09-543-681A-8279
15	118.5	3.8	496	3	US-09-134-001C-3703
16	115	3.7	502	4	US-09-328-352-6968
17	112.5	3.6	237	3	US-09-134-001C-3057
18	109	3.5	468	4	US-09-710-279-868
19	109	3.5	468	4	US-09-710-279-1618
20	107.5	3.5	408	2	US-08-742-440A-6
21	107	3.5	353	4	US-09-576-160B-6
22	106.5	3.4	504	4	US-09-489-039A-8489
23	104.5	3.4	453	1	US-08-439-131A-5
24	104.5	3.4	453	1	US-08-440-674-4
25	104.5	3.4	453	1	US-08-879-337-6
26	104.5	3.4	822	4	US-09-824-734-3
27	104	3.4	511	4	US-09-107-532A-6112

28	104	3.4	526	4	US-09-722-377-16	Sequence 16, Appl
29	104	3.4	526	4	US-09-722-377-19	Sequence 19, Appl
30	103	3.3	356	4	US-09-270-767-46804	Sequence 46804, A
31	102.5	3.3	402	4	US-09-270-767-35644	Sequence 35644, A
32	102.5	3.3	402	4	US-09-270-767-50861	Sequence 50861, A
33	102	3.3	407	4	US-09-328-352-5605	Sequence 5605, Ap
34	101.5	3.3	305	4	US-09-583-110-3512	Sequence 3512, Ap
35	101.5	3.3	2938	5	PCT-US94-00198-3	Sequence 3, Appl
36	100	3.2	171	4	US-09-248-796A-20285	Sequence 20285, A
37	99.5	3.2	511	4	US-09-328-352-6365	Sequence 6365, Ap
38	99.5	3.2	616	1	US-08-149-100-2	Sequence 2, Appl
39	98.5	3.2	265	4	US-09-134-000C-5847	Sequence 5847, Ap
40	97.5	3.2	470	2	US-08-724-394A-10	Sequence 10, Appl
41	97.5	3.2	557	4	US-09-521-195B-27	Sequence 27, Appl
42	97.5	3.2	557	4	US-09-798-743-3	Sequence 3, Appl
43	97	3.1	549	4	US-09-115-150-4	Sequence 4, Appl
44	96.5	3.1	565	4	US-09-252-991A-33045	Sequence 33045, A
45	96	3.1	357	5	PCT-US95-07180-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1

US-09-786-681A-4

; Sequence 4, Application US/09786681A

; Patent No. 6692926

; GENERAL INFORMATION:

; APPLICANT: HIDAKA, Jun et al.

; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L

; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES

; FILE REFERENCE: 0020-4827P

; CURRENT APPLICATION NUMBER: US/09/786,681A

; CURRENT FILING DATE: 2001-01-24

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: Patent version 3.0

; SEQ ID NO 4

; LENGTH: 579

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-786-681A-4

Query Match 100.0%; Score 3089; DB 4; Length 579;

Best Local Similarity 100.0%; Pred. No. 1.2e-294;

Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	AALWLLLLLPRTRADEHHTYQDKEEVVLMWNTVGPYHNROETKYKYSLPFCVGSKSI	60
DB	4	AALWLLLLLPRTRADEHHTYQDKEEVVLMWNTVGPYHNROETKYKYSLPFCVGSKSI	63
QY	61	SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKKEKDAFYVAIKHYYQMY	120
DB	64	SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKKEKDAFYVAIKHYYQMY	123
QY	121	IDDLPTWGVGADENGEDYLTWKLEIGNGNRIYDVNLTSGKVKLVNTKIQSY	180
DB	124	IDDLPTWGVGADENGEDYLTWKLEIGNGNRIYDVNLTSGKVKLVNTKIQSY	183
QY	181	SVKWKSDYKFDKDPKYLDPSPFFQRIHWFISFNSFMVIFLVGLVSMILMRLTKDYA	240
DB	184	SVKWKSDYKFDKDPKYLDPSPFFQRIHWFISFNSFMVIFLVGLVSMILMRLTKDYA	243
QY	241	RYSKEEMDMRDLDGEYGVQVHGDVFRPSSHLLIFSSLLGSGCOIPANSLIIVAM	300
DB	244	RYSKEEMDMRDLDGEYGVQVHGDVFRPSSHLLIFSSLLGSGCOIPANSLIIVAM	303
QY	301	IEDLYTERGSMSTALFVYAATSPVNGYFGGSLYARQGGRRWIKQFAGFLIPAMVCGT	360
DB	304	IEDLYTERGSMSTALFVYAATSPVNGYFGGSLYARQGGRRWIKQFAGFLIPAMVCGT	363
QY	361	APFINFIAIYHASRAIPFGTGVAVCCICFFVILPLNLVGTILGNLSQGNPFCRVAV	420
DB	364	APFINFIAIYHASRAIPFGTGVAVCCICFFVILPLNLVGTILGNLSQGNPFCRVAV	423

QY 421 PRPIPEKKWFMEPAVIVCLGILPGSIFIEFYFTSFYAYKLYYYVYGFMMVLVLICI 480
 DB 424 PRPIPEKKWFMEPAVIVCLGILPGSIFIEFYFTSFYAYKLYYYVYGFMMVLVLICI 483
 QY 481 VTVCVTIVCTYFLLNAEDYRQWTSFLLSAASTAIYVYMYSPYFFFTKMYGLFQTSFYF 540
 DB 484 VTVCVTIVCTYFLLNAEDYRQWTSFLLSAASTAIYVYMYSPYFFFTKMYGLFQTSFYF 543
 QY 541 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
 DB 544 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 579

RESULT 2
 US-09-786-681A-2
 ; Sequence 2, Application US/09786681A
 ; Patent No. 6692926
 ; GENERAL INFORMATION:
 ; APPLICANT: HIDAKA, Jun et al.
 ; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
 ; FILE REFERENCE: BINDING ACTIVITIES, AND THEIR USES
 ; CURRENT APPLICATION NUMBER: 0020-4827P
 ; CURRENT FILING DATE: 2001-01-24
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 2
 ; LENGTH: 582
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-786-681A-2

Query Match 100.0%; Score 3089; DB 4; Length 582;
 Best Local Similarity 100.0%; Pred. No. 1.2e-294;
 Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AALMLLLLLLPRTRADEHEHYQDKEEVLWMTNTPGVPHNRQETKYKFSLPFCVGSKSI 60
 DB 7 AALMLLLLLLPRTRADEHEHYQDKEEVLWMTNTPGVPHNRQETKYKFSLPFCVGSKSI 66
 QY 61 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKEDKADAFVYAIKHHYQMY 120
 DB 67 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKEDKADAFVYAIKHHYQMY 126
 QY 121 IDDLPIWGIVEADENGEDYLLWTKLEIGFNGNRIVDVNLTSEGGKVLVPNTKIOMSY 180
 DB 127 IDDLPIWGIVEADENGEDYLLWTKLEIGFNGNRIVDVNLTSEGGKVLVPNTKIOMSY 186
 QY 181 SVKWKSDVKFEDRFDKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDYA 240
 DB 187 SVKWKSDVKFEDRFDKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDYA 246
 QY 241 RYSKEEEMDDMDRLDGEYGHQVGVFRPSSHPLIFSSLSGCGQIFAVSLIIVAM 300
 DB 247 RYSKEEEMDDMDRLDGEYGHQVGVFRPSSHPLIFSSLSGCGQIFAVSLIIVAM 306
 QY 301 IEDLYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGRRWIKQMFIFGLIPAMVCGT 360
 DB 307 IEDLYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGRRWIKQMFIFGLIPAMVCGT 366
 QY 361 AFFNFIATYHAGRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGQNPFCRVNAV 420
 DB 367 AFFNFIATYHAGRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGQNPFCRVNAV 426
 QY 421 PRPIPEKKWFMEPAVIVCLGILPGSIFIEFYFTSFYAYKLYYYVYGFMMVLVLICI 480
 DB 427 PRPIPEKKWFMEPAVIVCLGILPGSIFIEFYFTSFYAYKLYYYVYGFMMVLVLICI 486
 QY 481 VTVCVTIVCTYFLLNAEDYRQWTSFLLSAASTAIYVYMYSPYFFFTKMYGLFQTSFYF 540
 DB 487 VTVCVTIVCTYFLLNAEDYRQWTSFLLSAASTAIYVYMYSPYFFFTKMYGLFQTSFYF 546

QY 541 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
 DB 547 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 582

RESULT 3
 US-09-270-767-32308
 ; Sequence 32308, Application US/09270767
 ; Patent No. 6703491
 ; GENERAL INFORMATION:
 ; APPLICANT: Homburger et al.
 ; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
 ; FILE REFERENCE: File Reference: 7326-094
 ; CURRENT APPLICATION NUMBER: US/09/270,767
 ; CURRENT FILING DATE: 1999-03-17
 ; NUMBER OF SEQ ID NOS: 62517
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 32308
 ; LENGTH: 257
 ; TYPE: PRT
 ; ORGANISM: Drosophila melanogaster
 US-09-270-767-32308

Query Match 35.8%; Score 1107; DB 4; Length 257;
 Best Local Similarity 78.2%; Pred. No. 2e-100;
 Matches 201; Conservative 27; Mismatches 29; Indels 0; Gaps 0;

QY 180 YSVKWKSDVKFEDRFDKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDY 239
 DB 1 YEVNWKPSKVEFKNRFDKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDY 60
 QY 240 ARYSKEEEMDDMDRLDGEYGHQVGVFRPSSHPLIFSSLSGCGQIFAVSLIIVAM 299
 DB 61 ARYSKDEEIDMDERLDGEYGHQVGVFRPSSHPLIFSSLSGCGQIFAVSLIIVAM 120
 QY 300 MTELYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGRRWIKQMFIFGLIPAMVCG 359
 DB 121 IVGELYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGRRWIKQMFIFGLIPAMVCG 180
 QY 360 TAFFNFIATYHAGRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGQNPFCRVNA 419
 DB 181 TAFLNFIATYHAGRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGQNPFCRVNA 240
 QY 420 VPRPIPEKKWFMEPAVI 436
 DB 241 VPRPIPEKKWFMEPLII 257

RESULT 4
 US-08-959-004-10
 ; Sequence 10, Application US/08959004
 ; Patent No. 6197543
 ; GENERAL INFORMATION:
 ; APPLICANT: Hillman, Jennifer L.
 ; APPLICANT: Yue, Henry
 ; APPLICANT: Corley, Neil C.
 ; APPLICANT: Lal, Preeti
 ; APPLICANT: Shah, Purvi
 ; APPLICANT: Kaser, Matthew
 ; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
 ; NUMBER OF SEQUENCES: 11
 ; CORRESPONDENCE ADDRESS:
 ; STREET: 3174 Porter Drive
 ; CITY: Palo Alto
 ; STATE: CA USA
 ; COUNTRY: USA
 ; ZIP: 94304
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS

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; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 625 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1665777
; US-08-959-004-10

Query Match      30.8%; Score 950.5; DB 3; Length 625;
Best Local Similarity 35.7%; Pred. No. 1.8e-84;
Matches 214; Conservative 100; Mismatches 212; Indels 73; Gaps 11;

QY 42 QETVYKPSLPFCVSGKKSISGHYHETLGEALQGVLEFSGLDIKFDKDVMPATYCE-----96
DB 36 QLPVEYYSLFFCQPSK--ITYKAENLGEVLGRDRIWVTPFQVLMNSEKKEVLCQSQSNKP 93
QY 97 IDLDKERDAFVVAIKNHVYQVMIIDLP-----WG1-VG 131
DB 94 VTLTVEQSRLVAERITEDYVHLIADNLPLVATRLLEYLSNRDSDKKEKDVQFEHGYRLG 153
QY 132 EAD-----ENGEDYLYTYK--KLEIGFNGNRIVDVNLTSSEGVKLV 171
DB 154 FTDVNTKIYLNHLSFIYLYHREDWEEDQHTYVVRFEVTPQIRLEDLKADEKSSCTLP 213
QY 172 PNT-----KIQMSYVKKKSDVKEDRDKYLDPSFPQHRJHWFISFNSFM 218
DB 214 EGTNSSPQEIPTKENQLYFTSYVHWEESDIKWAASRDYLTMSDVQ--IHWFSIINSVV 271
QY 219 MVIFLVGLVSMILMRTLKDYARYSKKEEMDDMDRLGDDEYGMKQVHGDFRPSHPLIF 278
DB 272 VVFLSGILSMIIRTLURKDIANTNKEDDIE----DTMESGWLKLVHGDVFRFPQIPML 327
QY 279 SSLIGSGCQIFAVSLIIVIAMIEDLY--TERGSMLSAIFVYAATSPVNGYFGGSLYARQ 337
DB 328 SSLIGSGQLFCMLIIVFVAMLGMLSPSSRGALMTTACFLFMFMGVFGGFSAGRLYRTL 387
QY 338 GGRWIKQMFAGLRIIPAMVCGTAFPIINFAIYHSAIRAIPFGTNVAVCCICFVILPLN 397
DB 388 KGRHWKKGAFCTATLYPGVFGICFVINCFTWGHSSGAVFPPTMVALLCMWFGISLPLV 447
QY 398 LVGRIILGNLSGQNFPCRVNAVRPIPEKKWFMEPAVIVCLGGILPFGSIFITEMPIFT 457
DB 448 YLGYVFGFRKQPDN--PVRTNQIPROIQEQWYNNRFRVGMILMAGILPFGAMFIELFIFS 506
QY 458 SFWAYKITYVYGVFMMLVLVILCVTVCTVYFLLNABSDYRWQWTSFLSAASTAIYVY 517
DB 507 AIWENQFYFLFGFLFVILVWSCQISIVMVYFQLCAEDYRWWRNFWFLVSGGSFVYL 566
QY 518 MYSFYVYFFKTKMYGLQTSFYFGYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
DB 567 VYALIFYFNKLDIVFEFIPSLLYFGITAMULSFMLLTGTIGFYAAVNFVRKIYAAVKID 625

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RESULT 5

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US-08-959-004-5
; Sequence 5, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; TITLE OF INVENTION: PROTEINS
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 663 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: ADRETUT06
; CLONE: 2822412
; US-08-959-004-5

Query Match      27.3%; Score 843.5; DB 3; Length 663;
Best Local Similarity 31.2%; Pred. No. 6.3e-74;
Matches 199; Conservative 120; Mismatches 234; Indels 85; Gaps 16;

QY 9 LLPRTADEHEHTYQDKKEEVLWMTVGYHNQBTYKVFSLPFCVSGKKSISHVHETLG 68
DB 41 LAPVNFCEEKSDCKAEIELFVNRLDSVES-VLPYEYTFDFQASEG--KRPENLG 97
QY 69 EALQGVLEFSGLDIKFDD-----VMPATY-CEIDLDKERDAFVVAIKNHVYQVMIID 122
DB 98 QVLFGERIEPSYPKFTFNKCKTCLVCTKTYHTKAEQKQKLEFLKKSMLNLYQHHWIVD 157
QY 123 DLPI-W-----GIVGEADENGED--YLLWT-----144
DB 158 NMPVTWCYDVEDQGRFCNPFPGICGCIITDKGHAKDACVISDFHERDFTYIFNHWIDIKIY 217
QY 145 YKKLEIGFNGNRIV-----DVALTSEGVKLVNTPKIQMSY 180
DB 218 YHVVETGSGARLVAAKLEPKSFKHTHDKPDCSPFMDISKASGEI-----KIATY 271
QY 181 SVYKWKSD--VKPEDRFDKYLDPSFPQHRJHWFISFNSFMWIFLVGLVSMILMRTLKDY 239

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Db 272 SVSPEEDDKIRWASRDVILBSMPHTH-IQWFSIMNSIVIVFLSGMVAMIMLRLLTKDI 330
Qy 240 ARYKKEEMDDMDRLDGEYQWQVHGDFRPPSHPLIFSLGSGCQIFAVSLIIVIA 299
Db 331 ARYN---QMDSTE-DAQEFQKLVHGDIFRPPKGMLLSVFLSGTGQILIMTFVTLFFA 386
Qy 300 MIEDLY-TERGSMLSTAFVVAATSPVNGYFGGSLYARQGGRRWIKQWFGAFILPAMVC 358
Db 387 CLGFLSPANRGAALTCVAVLWVLGTPAGYVAARFYKSGGKWKTNVLLTSLFCPIVF 446
Qy 359 GTAFINFIAYHASRAIPGTVMVAVCCICFFVILPLNLVGTILGRNLGQPNFCRVN 418
Db 447 ADFFIMNLILMEGSSAAIPGTIVAILALWFCISVPLTFIGAYFGFKNAIEH-PVRTN 505
Qy 419 AVPRPIPEKWFMPAPVAVLGGILPGSIFIEVMYFIFTSFWAYKIYVYVGFMMVLVIL 478
Db 506 QIPQIQEQSYTYPLPGIIMGILPGCIPFIOFFILNINSHQMYMFGFLFVFIIL 565
Qy 479 CIVTCVTIVCTYFLNADRYRWQWTSFLSAASTAIYVYYSFYFFKTKMYGLFOTSF 538
Db 566 VITCSEATILCYPHLCAEDYHQMWRSLTSGFTAVYFLIYAVHYFFSKLQITGTASTIL 625
Qy 539 YFGYMAVFSTALGMCNAGYMGTSFAVRKIYTNVKID 576
Db 626 YFGYTMIMVLIFLFTGTIGFFACFWFVTKIYSVVKVD 663

RESULT 6

US-08-959-004-11
; Sequence 11, Application US/08953004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PP-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 667 amino acids
; TYPE: amino acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 2131246
; US-08-959-004-11
Query Match 22.5%; Score 694; DB 3; Length 667;
Best Local Similarity 27.0%; Pred. No. 3.1e-59;
Matches 175; Conservative 116; Mismatches 254; Indels 102; Gaps 14;
Qy 21 TQDKEEVVWNTVGP---YHNRQF-----TYKPSLDFCVGSKKSISHY 63
Db 32 TYRENDNIPLLVNHTTPSNYQHKDEGNNVSGKXENFLYSYDYNNRHFHCQPEKVEKQ 91
Qy 64 HETLGEALQGVLEBSGLDIFKDDVMPATYCEIDLKKEKDAFYAIAKNNHYWYQMYIDD 123
Db 92 PESLSGVIFGDIYNSPQLNMLQKECESLCKTVIPGDDAKFKINKLKNKGFQNWLLDG 151
Qy 124 LP-----TWGIVGEADENGEDYYLWT-----YK 146
Db 152 LPAAREVVDGRTKTSFYGAGNLFQVQVTQGTIEATPKGAETTDKOVELETRNDRNMVK 211
Qy 147 KLEIGFNGNR---IVDVNLTSEGKVKLV-----PNT----- 174
Db 212 TYELFYFANHFDMIEYHDRGEGNVRVGVIVEPVSVIKSSPGTCCTTGSLMDEGNDN 271
Qy 175 KIOMSYSVKWKSDVKFEDRFDKYL---DPSFFQHRHWFIFNSFMVIVFLVGLVSMIL 231
Db 272 EVYFTYSVKFNEBSATSWATRWCKVLHVYDPS-----IQWFLINFLSVVLLSSVVIHSL 326
Qy 232 METLRKDYARYSKEEEMDDMDRLDGEYQWQVHGDFRPPSHPLIFSLGSGCQIFAV 291
Db 327 LEALKSDFARYN-EUNLDD---DFOEDSGWKLNHGDFRSPSQSLTUSILVSGVQVFLM 382
Qy 292 SLIIVIVAMIEDLY-TERGSMLSTAFVVAATSPVNGYFGGSLYARQGGRRWIKQWFGA 350
Db 383 VTCISIFFAALGFLSPSSRGSLATVMFIYALFGFVGSYTSNGIVKFFNGPYWKAANLITP 442
Qy 351 FLIPAMVCGTAPFINFIAYHASRAIPGTVMVAVCCICFFVILPLNLVGTILGRNLGQ 410
Db 443 LLVPGAIIILIIALNFFLMFVHSSGVIIPASTLFFFMVFLWFLFSLPSFAGSLIARKECHW 502
Qy 411 PNFPCRNVAVPRPIPEKWFMEPAVIVCLGILPFGSIFIEMYFIFTSFWAYKIYVYVGF 470
Db 503 DEHPKTNQIARQIPFPQVYKLTIPATLIAGIFFPGSLAVELYFLIYSLWFKIFYMEGF 562
Qy 471 MMLVLVILCIVTCVTIVCTYFLNADRYRWQWTSF-LSAASTAIYVYMSFYFFKTK 529
Db 563 LPFSFLLLTSLTSSLVTLITYHSLCLENKRWQWRGFIIGGAGCALYVFIHSI--LFTKFK 620
Qy 530 MYGLFQTSFYFGYMAVFSTALGMCNAGYMGTSFAVRKIYTNVKID 576
Db 621 IGGFTTIVLYGVYSSVISLLCLVTGSGISGFISSMLFVRKIYSSIKVD 667

RESULT 7

US-09-270-767-44213
; Sequence 44213, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 44213
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-270-767-44213

```
Query Match      20.3%; Score 628; DB 4; Length 133;
Best Local Similarity 83.5%; Pred. No. 8.9e-54; Indels 0; Gaps 0;
Matches 111; Conservative 14; Mismatches 8;

Qy 444 PFGSIFTEMFIPTSFWAYKIYYVYGFMLLVILCIIVTCVITVCTYFLLNAEDYRWQW 503
Db 1 PFGSIFTEMFIPTSFWAYKIYYVYGFMLLVFSILTVTVTCVITVCTYFLLNAEDYRWQW 60

Qy 504 TSFLSAASTAIYVMYGFYFFFTKMYGLFQTSFYFGYMAVFTALGIMCGAIGYMGTS 563
Db 61 TSFMAAGSTIYVAYGFYFFFTKMYGLFQTAFFGYMALFSGALGIICTGVGVGTN 120

Qy 564 AFVRKIYTNVKID 576
Db 121 LFVRKIYSNVKID 133

RESULT 8
US-09-270-767-59636
; Sequence 59636, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270.767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 59636
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-59636

Query Match      20.3%; Score 628; DB 4; Length 133;
Best Local Similarity 83.5%; Pred. No. 8.9e-54; Indels 0; Gaps 0;
Matches 111; Conservative 14; Mismatches 8;

Qy 444 PFGSIFTEMFIPTSFWAYKIYYVYGFMLLVILCIIVTCVITVCTYFLLNAEDYRWQW 503
Db 1 PFGSIFTEMFIPTSFWAYKIYYVYGFMLLVFSILTVTVTCVITVCTYFLLNAEDYRWQW 60

Qy 504 TSFLSAASTAIYVMYGFYFFFTKMYGLFQTSFYFGYMAVFTALGIMCGAIGYMGTS 563
Db 61 TSFMAAGSTIYVAYGFYFFFTKMYGLFQTAFFGYMALFSGALGIICTGVGVGTN 120

Qy 564 AFVRKIYTNVKID 576
Db 121 LFVRKIYSNVKID 133

RESULT 9
US-09-513-999C-7579
; Sequence 7579, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US.2.92G
; CURRENT APPLICATION NUMBER: US/09/513.999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 7579
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
```

```
US-09-513-999C-7579

Query Match      19.8%; Score 613; DB 4; Length 111;
Best Local Similarity 100.0%; Pred. No. 2e-52; Indels 0; Gaps 0;
Matches 111; Conservative 0; Mismatches 0;

Qy 32 MNTVGPYHNROETKYKYSFLPFCVSGSKSISHYHETLGEALQGVLEFSLDIKFKDDVWP 91
Db 1 MNTVGPYHNROETKYKYSFLPFCVSGSKSISHYHETLGEALQGVLEFSLDIKFKDDVWP 60

Qy 92 ATYCIDLDKDKRDAFYVAIKNHVYQMYIDDLPIWGIVGADENGEDYYL 142
Db 61 ATYCIDLDKDKRDAFYVAIKNHVYQMYIDDLPIWGIVGADENGEDYYL 111

RESULT 10
US-09-270-767-46281
; Sequence 46281, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7325-094
; CURRENT APPLICATION NUMBER: US/09/270.767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 46281
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-46281

Query Match      18.8%; Score 580; DB 4; Length 218;
Best Local Similarity 63.3%; Pred. No. 9.6e-49; Indels 4; Gaps 1;
Matches 105; Conservative 20; Mismatches 37;

Qy 2 AWWLLLLL----LPTRADEHEHTYQDKREVVLMVNTVGPYHNROETKYKYSFLPFCVSGSK 57
Db 53 AICLCLLIASCYVLSQADEHNNKYNDRREVVLMVNTVGPYHNROETKYKYSFLPFCVSGSK 112

Qy 58 KSISHYHETLGEALQGVLEFSLDIKFKDDVMPATYCEIDLDKDKRDAFYVAIKNHVY 117
Db 113 SSISHYHETLGEALQGVLEFSGYEMEFKSDAPKSVICWVTLQESAKAFYAVKNEYWY 172

Qy 118 QMYIDDLPIWGIVGADENGEDYYLWTKYKLEIGFNGNRIVDVNL 163
Db 173 QMYIDGLPIWGVGERDGRDKGYIFTTHKKFDIGYQQOIVDITLT 218

RESULT 11
US-09-248-796A-20311
; Sequence 20311, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248.796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 20311
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-20311

Query Match      15.1%; Score 467; DB 4; Length 241;
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Best Local Similarity 37.3%; Pred. No. 1.4e-37;
Matches 91; Conservative 50; Mismatches 91; Indels 12; Gaps 4;
QY 338 GGRWIKOMFAGLIPAMVCGTAPFFINFTAIYHAGRAIPFGPMVAVCCICFFVILPLN 397
DB 5 GGDNWKLMFLTPVLVPGILSLVFVNLNFFLISVQSSGAIHMGTMFAIVLWFIISIPLS 64
QY 398 LVGTILGRNLGQP--NPPCRVNAVPRPIPEKKWMEPAVIVCLGILPFGSIFIEYFI 455
DB 65 VIGSILAN---RPLSVVPTNQIPQIPQIPQIPQIPQIPQIPQIPQIPQIPQIPQIPQ 121
QY 456 FTSPWAYKIYVYGPMMLVLVILCIVTVCVITVCTYFLLNAEDYRWQWTSFLSAASTAY 515
DB 122 YSSWFKNFYFMFGFLPFCFIMLTSSLIITMILMYITLCSENYKQWKSFLVGGGCAIY 181
QY 516 VYMSFYIYFFKT---XMYGLFQTSFVFGYVAVFSTALGIMCGAIGYMGTSAFVRKIYTN 572
DB 182 VFIRS-----FPLTGGKFGGSSVLVYSGYSAVISLLVFLCCGSIGFISLIFVRLIYQG 237
QY 573 VKID 576
DB 238 IKID 241

RESULT 12
US-09-513-999C-7785
; Sequence 7785, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59 US2, REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 7785
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 2
; OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 55
; OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 73
; OTHER INFORMATION: Xaa=Ala or Asp
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 74
; OTHER INFORMATION: Xaa=Lys or Thr
US-09-513-999C-7785

Query Match 11.8%; Score 364; DB 4; Length 87;
Best Local Similarity 91.1%; Pred. No. 4.2e-28;
Matches 72; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 251 MDRDLGDEYGWKQVHGVDPSPSSHLIFSSLGSGCQIFAVSLIIVAMIEDLYTERGS 310
DB 3 MDRDLGDEYGWKQVHGVDPSPSSHLIFSSLGSGCQIFAVSLIIVAMIEIXTERGS 62
QY 311 MLSTAIFVYVAXTSPVNGVF 329
|||||

DB 63 MLSTAIFVYVAXXSPSEWLF 81
RESULT 13
US-09-583-110-4773
; Sequence 4773, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al.
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; FILE REFERENCE: PATH00-07A
; CURRENT APPLICATION NUMBER: US/09/583,110
; CURRENT FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 4773
; LENGTH: 605
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-583-110-4773
Query Match 4.1%; Score 127; DB 4; Length 605;
Best Local Similarity 19.8%; Pred. No. 0.0014;
Matches 73; Conservative 60; Mismatches 117; Indels 118; Gaps 17;
QY 203 FQQRHIFHSPNSPMVIFVLGVLSMLMTRLDKDYARYSKBEEMDDMDRLDGEYV-- 260
DB 64 FPRRR-----FYRIVPEVLMVLVTPFTFLVRQDYV-----AGICGQIASV 105
QY 261 -----WKQVHGDFRPSHPLIFSSLGSGCQIFAVSLIIVAMIEDLYTERGSMLS 313
DB 106 LGFMNFYELLTGGSYESQFPHLFPVHWSLAVEHYVILGLAVWFL-STHAKSNGOLK 164
QY 314 TAIFVYAATSPVNGYFGGSLYARQGRWIKOMFAGLIPAMVCGTAPFFINFTAIYHA 373
DB 165 GMVFLLSAVAFILISFF-----SMFISGLVTSY--SSVYFSLTHVY--- 204
QY 374 SRAIPF--GTWAVCCICFFVILPLNLVG---TILGRNLSSQPNFPCRVNAVRPIPEK 427
DB 205 -----PFFLGSMIA-----TIVGVROTSLVKQL-----DK 230
QY 428 KWFMEPAVIVCLGILPFGSIFIEYFI-FTSPWAYKIYVYVGMMLVLVILCIVTVCVT 486
DB 231 IWDLRKTLVVFGGG--FGFLVLLTFFVKFTYLFAYLI---GFLASLAALAMILAA-- 281
QY 487 IVCTYFLLNAEDYRWQ---WTSELSAASTAIYVYVMSFYVYFFKTK-----MY 531
DB 282 -----RVLHEKTHHQEPKIIISFLADTSYAVLPHWPFYIIFSQTSNLLAVLLTLCYSY 336
QY 532 GLFQTSFY 539
DB 337 GFASLSFY 344
RESULT 14
US-09-543-681A-8279
; Sequence 8279, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRTON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09

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; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 8279
; LENGTH: 513
; TYPE: PRT
; ORGANISM: Proteus mirabilis
; US-09-543-681A-8279

Query Match      3.8%; Score 120.5; DB 4; Length 513;
Best Local Similarity 20.6%; Pred. No. 0.0048;
Matches 85; Conservative 65; Mismatches 135; Indels 127; Gaps 20;

QY 173 NTKIQMSYSYKWK-SDVKFED--RFDKVLDPSPFOHRIHWFSIFNSFMMVIF 222
Db 173 NTKIQMSYSYKWK-SDVKFED--RFDKVLDPSPFOHRIHWFSIFNSFMMVIF 222
QY 5 NTLIERSLNKMLKKRNKPLRINDITIIDDSKLKKAITAAALGNAMWEPD-FGVYGLAY 63
Db 5 NTLIERSLNKMLKKRNKPLRINDITIIDDSKLKKAITAAALGNAMWEPD-FGVYGLAY 63
QY 223 LVGL-----VSMI-----LMTLRKDARYSKSEEMDDMDRDLGDEYGWKQ 263
Db 223 LVGL-----VSMI-----LMTLRKDARYSKSEEMDDMDRDLGDEYGWKQ 263
QY 64 VLQGVFPFGASPGVQMIAALATSVPLVPLG-----GVVFGMLDKFGROK 111
Db 64 VLQGVFPFGASPGVQMIAALATSVPLVPLG-----GVVFGMLDKFGROK 111
QY 264 VHGDFVRPSSHPLIFSSLSIGSGCQIFAVSLI-----VIIVAMIEDLYTERGSM 311
Db 264 VHGDFVRPSSHPLIFSSLSIGSGCQIFAVSLI-----VIIVAMIEDLYTERGSM 311
QY 112 V-----LSVTIIIMALSTFAIGLIPGYDTIGIWAIVLVLLAKLAQGSIGGEY 159
Db 112 V-----LSVTIIIMALSTFAIGLIPGYDTIGIWAIVLVLLAKLAQGSIGGEY 159
QY 312 LSTAIFVYATSP--VNGYFGGSLYARQGRWIKQMFICAPLIPAMVCGTAFINFI-- 367
Db 312 LSTAIFVYATSP--VNGYFGGSLYARQGRWIKQMFICAPLIPAMVCGTAFINFI-- 367
QY 160 SGAIFV-ABYSPDRKGFVMS-----WLDGSIAGFYVNGA---GVVVLITIMG 205
Db 160 SGAIFV-ABYSPDRKGFVMS-----WLDGSIAGFYVNGA---GVVVLITIMG 205
QY 368 -AIYVHASRAIPFGTMAVCCICFFVILPLNLVGTILGRNLGQPNF----- 413
Db 368 -AIYVHASRAIPFGTMAVCCICFFVILPLNLVGTILGRNLGQPNF----- 413
QY 206 EAAFHGWGTRIP-----FFIALPLGLGLYLRLHALETFAFQOHVDENSDDRK 254
Db 206 EAAFHGWGTRIP-----FFIALPLGLGLYLRLHALETFAFQOHVDENSDDRK 254
QY 414 ----PCRNVAVPRPIPEKKWFMPEPAIVVLCGLPFGSIFIEFYFTSFWAYKIYV-- 467
Db 414 ----PCRNVAVPRPIPEKKWFMPEPAIVVLCGLPFGSIFIEFYFTSFWAYKIYV-- 467
QY 255 SIENPPRVSL--REIASKYW---KSLTVCVGLVIATNTVYMLLTYPMSYLSHNLNYSAD 309
Db 255 SIENPPRVSL--REIASKYW---KSLTVCVGLVIATNTVYMLLTYPMSYLSHNLNYSAD 309
QY 468 YGFPMVLVLVLCIVTCVTCVYFLNAEDYRWQWTSLSAATAIYVYMY 519
Db 468 YGFPMVLVLVLCIVTCVTCVYFLNAEDYRWQWTSLSAATAIYVYMY 519
QY 310 HG-----VLIIITAIMGLFVQPVIGLSDKIGR---KPFVIGSGVLGILAY 354
Db 310 HG-----VLIIITAIMGLFVQPVIGLSDKIGR---KPFVIGSGVLGILAY 354

RESULT 15
US-09-134-001C-3703
; Sequence 3703, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: CTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3703
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
; US-09-134-001C-3703

Query Match      3.8%; Score 118.5; DB 3; Length 496;
Best Local Similarity 20.0%; Pred. No. 0.0071;
Matches 81; Conservative 68; Mismatches 156; Indels 99; Gaps 18;

QY 208 IHWFSIFNSF--MMVIFLVGLVSMILMRLTKRDKYARYS---KBEEMDDMDRDLGDEYGWK 262
Db 208 IHWFSIFNSF--MMVIFLVGLVSMILMRLTKRDKYARYS---KBEEMDDMDRDLGDEYGWK 262
QY 7 MNYLKQYESFPWLLIGIFIVLMAILPLSTTDWHAQVKNLSQVLTQENGRYLGHLEFW 66
Db 7 MNYLKQYESFPWLLIGIFIVLMAILPLSTTDWHAQVKNLSQVLTQENGRYLGHLEFW 66
QY 263 QVHGDFVRPSSHPLIFSSLSIGSGCQIFAVS--LIIIVAMIEDLYTERGSMLSAIFVYA 320
Db 263 QVHGDFVRPSSHPLIFSSLSIGSGCQIFAVS--LIIIVAMIEDLYTERGSMLSAIFVYA 320
QY 67 AVHNIIR-----ALIIYAITSFVLVYVQVLTNRVFIILS--FVLM 109
Db 67 AVHNIIR-----ALIIYAITSFVLVYVQVLTNRVFIILS--FVLM 109
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Search completed: November 17, 2004, 17:31:56
Job time : 32.2118 secs

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QY 321 ATSPVNGYFGGSLYARQGRWIKQMFIGAF-LIPAMVCGTAFINFIATIIYHASRAIPF 379
Db 110 VTVP-----NTIYSETYG--W-----FTGFFSYIPATV--LSLFIILFTVVQMIESH--- 152
QY 380 GTMAVAVCCICFFVILPLNLVGTILGRNLGQPNFPCRNVAVPRPIPEKK--WFMEPAVI 436
Db 153 ----TVSEWQLWVFLVLSLFGQFFLENLSIANSLLILIGMVVYFVKKRLSVFLIVGFM 208
QY 437 VCLGILPFGSIFIEFYIFP-----TSFWAYKIYVYVYVYVYVYVYVYVYVYVYVYVYV 475
Db 209 SCIGNIIMFLNF--NYELIKDGLNTHYSISDSHGMHKAGVTUFLKLVPEYTFINQMII 265
QY 476 VILCIWTV-----CVTI-VCTYFELLNAEDYRWQWTSLSAA- 510
Db 266 TVISIVSIVLLKQNKSLKHMVYIKIPLLLGLIILPIYKIFVYNQFHLEYKASFSIAVL 325
QY 511 -STAIYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYV 553
Db 326 NTTICFIYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYVYV 369
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OM protein - protein search, using sw model

Run on: November 17, 2004, 17:17:22 ; Search time 108.39 Seconds
(without alignments)
1881.882 Million cell updates/sec

Title: US-09-319-724b-14
Perfect score: 3089
Sequence: 1 AALWLLLLPRTRADEHEH.....IGYMGTSAFVRKIYTNVKID 576

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1570615 seqs, 354127592 residues

Total number of hits satisfying chosen parameters: 1570615

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :	Published Applications AA:*
1:	/cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
2:	/cgn2_6/ptodata/2/pubpaa/PTI_NEW_PUB.pep.*
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15:	/cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16:	/cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
17:	/cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
18:	/cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
19:	/cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
20:	/cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Length	DB ID	Description
1	2916	94.4	545	10	US-09-374-046A-26
2	2916	94.4	545	15	US-10-616-263-26
3	2187	70.8	530	14	US-10-205-219-121
4	1744.5	56.5	596	17	US-10-425-115-325471
5	1744	56.5	617	16	US-10-437-963-141888
6	1738.5	56.3	594	16	US-10-767-701-44284
7	1736	56.2	595	17	US-10-425-115-325582
8	1716	55.6	596	16	US-10-437-963-116913
9	1712	55.4	595	17	US-10-739-930-9909
10	1636.5	53.0	576	15	US-10-425-114-66140
11	1635.5	52.9	552	17	US-10-425-115-285624
12	1430.5	46.3	500	17	US-10-425-115-206340
13	1313	42.5	424	16	US-10-437-963-103141

14	1153.5	37.3	592	15	US-10-424-599-174369	Sequence 174369,
15	1143	37.0	692	17	US-10-425-115-202293	Sequence 202293,
16	1142	37.0	627	15	US-10-425-114-42573	Sequence 42573, A
17	1129	36.5	623	15	US-10-425-114-62405	Sequence 62405, A
18	1128	36.5	624	15	US-10-425-114-45661	Sequence 45661, A
19	1128	36.5	647	15	US-10-424-599-209344	Sequence 204944, A
20	1126.5	36.5	595	16	US-10-767-701-45514	Sequence 45514, A
21	1125.5	36.4	589	17	US-10-425-115-359244	Sequence 359244, A
22	1115	36.1	594	17	US-10-739-930-11084	Sequence 11084, A
23	1115	36.1	645	17	US-10-739-930-11074	Sequence 11074, A
24	1099	35.6	627	16	US-10-437-963-120941	Sequence 120941,
25	1037	33.6	893	16	US-10-437-963-177000	Sequence 177000,
26	1022	33.1	820	16	US-10-437-963-165390	Sequence 165390,
27	983.5	31.8	341	15	US-10-424-599-246293	Sequence 246293,
28	950.5	30.8	625	14	US-10-394-136-54	Sequence 54, Appl
29	950.5	30.8	642	14	US-10-201-964-1	Sequence 1, Appl
30	944	30.6	606	14	US-10-050-704-108	Sequence 108, App
31	944	30.6	606	16	US-10-798-512-108	Sequence 108, App
32	917.5	29.7	559	17	US-10-739-930-10304	Sequence 10304, A
33	898.5	29.1	642	16	US-10-437-963-150528	Sequence 150528,
34	897	29.0	637	15	US-10-424-599-218357	Sequence 218357,
35	883	28.6	639	17	US-10-425-115-193953	Sequence 193953,
36	878	28.4	637	15	US-10-424-599-197142	Sequence 197142,
37	876	28.4	639	17	US-10-425-115-194452	Sequence 194452,
38	871.5	28.2	646	16	US-10-437-963-136356	Sequence 136356,
39	870	28.2	639	17	US-10-425-115-194454	Sequence 194454,
40	867	28.1	253	17	US-10-425-115-206342	Sequence 206342,
41	861	27.9	659	16	US-10-437-963-128426	Sequence 128426,
42	854	27.6	237	15	US-10-425-114-37646	Sequence 37646, A
43	849.5	27.5	590	16	US-10-437-963-198730	Sequence 198730,
44	847.5	27.4	513	15	US-10-424-599-195511	Sequence 195511,
45	846	27.4	670	17	US-10-739-930-10578	Sequence 10578, A

ALIGNMENTS

RESULT 1
US-09-374-046A-26
; Sequence 26, Application US/09374046A
; Publication NO. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Acostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fecthel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6075-83A
; CURRENT APPLICATION NUMBER: US/09/374,046A
; CURRENT FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-374-046A-26

Query Match 94.4%; Score 2916; DB 10; Length 545;
Best Local Similarity 99.8%; Pred. No. 8.7e-263;
Matches 544; Conservative 1; Indels 0; Gaps 0;

QY 32 MNIVGFYHNRQTYKYFSLPFCVGSKSKISHSYHETLGEALQGVLEFSGLDIKFKDDVMP 91

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Db 1 MNTVGPYHNRQETKYFSLPFCVSGSKSISHYHETLGEALQGVLEFSGLDIKFKDDVMP 60
QY 92 ATYCEIDLDKRDPAFVVAIKNHVYQWYIIDLPIWGIWGEADENGEDYVLTWYKLEIG 151
Db 61 ATYCEIDLDKRDPAFVVAIKNHVYQWYIIDLPIWGIWGEADENGEDYVLTWYKLEIG 120
QY 152 FNGNRIVDNLTSSEKVKLVNTKIQMSYSVKWKKSDVKFEDRDKYLDPSFFQHRHWF 211
Db 121 FNGNRIVDNLTSSEKVKLVNTKIQMSYSVKWKKSDVKFEDRDKYLDPSFFQHRHWF 180
QY 212 SIFNSFMVIFLVGLVSMILMRTLRKYARYSKEEEMDDMDRLDGBYGNKQVHGDVFRP 271
Db 181 SIFNSFMVIFLVGLVSMILMRTLRKYARYSKEEEMDDMDRLDGBYGNKQVHGDVFRP 240
QY 272 SSHPLIFSLIGSGCQIFAVSLIIVIAMIEDLYTERGSMSTAI FVYAATSPVNGYFEG 331
Db 241 SSHPLIFSLIGSGCQIFAVSLIIVIAMIEDLYTERGSMSTAI FVYAATSPVNGYFEG 300
QY 332 SLIYARQGGRRWTKQMFICAFILIPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFF 391
Db 301 SLIYARQGGRRWTKQMFICAFILIPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFF 360
QY 392 VILPLNLVGTILGRNLSCQNPFCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIE 451
Db 361 VILPLNLVGTILGRNLSCQNPFCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIE 420
QY 452 MYFIFTSFWAYKIYYVYGFMMVLVILCIIVCTVITVCTYFLLNAEDYRWQWTSFSLAAS 511
Db 421 MYFIFTSFWAYKIYYVYGFMMVLVILCIIVCTVITVCTYFLLNAEDYRWQWTSFSLAAS 480
QY 512 TAIYVYMSFYFFPKTKWYGLFQTSFYFGYMAVFPSTALGIMCGAIGYMGTSAFVRKIYT 571
Db 481 TAIYVYMSFYFFPKTKWYGLFQTSFYFGYMAVFPSTALGIMCGAIGYMGTSAFVRKIYT 540
QY 572 NVKID 576
Db 541 NVKID 545

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RESULT 2
US-10-616-263-26
; Sequence 26, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000103.5
; CURRENT APPLICATION NUMBER: US/10/616.263
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-616-263-26

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Query Match 94.4%; Score 2916; DB 15; Length 545;
Best Local Similarity 99.8%; Pred. No. 8.7e-263;

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Matches 544; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 32 MNTVGPYHNRQETKYFSLPFCVSGSKSISHYHETLGEALQGVLEFSGLDIKFKDDVMP 91
Db 1 MNTVGPYHNRQETKYFSLPFCVSGSKSISHYHETLGEALQGVLEFSGLDIKFKDDVMP 60
QY 92 ATYCEIDLDKRDPAFVVAIKNHVYQWYIIDLPIWGIWGEADENGEDYVLTWYKLEIG 151
Db 61 ATYCEIDLDKRDPAFVVAIKNHVYQWYIIDLPIWGIWGEADENGEDYVLTWYKLEIG 120
QY 152 FNGNRIVDNLTSSEKVKLVNTKIQMSYSVKWKKSDVKFEDRDKYLDPSFFQHRHWF 211
Db 121 FNGNRIVDNLTSSEKVKLVNTKIQMSYSVKWKKSDVKFEDRDKYLDPSFFQHRHWF 180
QY 212 SIFNSFMVIFLVGLVSMILMRTLRKYARYSKEEEMDDMDRLDGBYGNKQVHGDVFRP 271
Db 181 SIFNSFMVIFLVGLVSMILMRTLRKYARYSKEEEMDDMDRLDGBYGNKQVHGDVFRP 240
QY 272 SSHPLIFSLIGSGCQIFAVSLIIVIAMIEDLYTERGSMSTAI FVYAATSPVNGYFEG 331
Db 241 SSHPLIFSLIGSGCQIFAVSLIIVIAMIEDLYTERGSMSTAI FVYAATSPVNGYFEG 300
QY 332 SLIYARQGGRRWTKQMFICAFILIPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFF 391
Db 301 SLIYARQGGRRWTKQMFICAFILIPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFF 360
QY 392 VILPLNLVGTILGRNLSCQNPFCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIE 451
Db 361 VILPLNLVGTILGRNLSCQNPFCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIE 420
QY 452 MYFIFTSFWAYKIYYVYGFMMVLVILCIIVCTVITVCTYFLLNAEDYRWQWTSFSLAAS 511
Db 421 MYFIFTSFWAYKIYYVYGFMMVLVILCIIVCTVITVCTYFLLNAEDYRWQWTSFSLAAS 480
QY 512 TAIYVYMSFYFFPKTKWYGLFQTSFYFGYMAVFPSTALGIMCGAIGYMGTSAFVRKIYT 571
Db 481 TAIYVYMSFYFFPKTKWYGLFQTSFYFGYMAVFPSTALGIMCGAIGYMGTSAFVRKIYT 540
QY 572 NVKID 576
Db 541 NVKID 545

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RESULT 3
US-10-205-219-121
; Sequence 121, Application US/10205219
; Publication No. US20030138803A1
; GENERAL INFORMATION:
; APPLICANT: Warner-Lambert Company
; APPLICANT: Lee, Kevin
; APPLICANT: Dixon, Allstair
; APPLICANT: Brooksbank, Robert
; APPLICANT: Pincock, Robert
; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain
; FILE REFERENCE: WL-A-018200
; CURRENT APPLICATION NUMBER: US/10/205,219
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: GB 0118354.0
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 121
; LENGTH: 530
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: EP70-P-iso
US-10-205-219-121

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Query Match 70.8%; Score 2187; DB 14; Length 530;
Best Local Similarity 80.9%; Pred. No. 8e-195;
Matches 436; Conservative 12; Mismatches 51; Indels 40; Gaps 7;

QY 1 AALWLLLLLPRTRADEHEHTYQDKKEVVLWMNTVGPYHNROBTYKYFSLPFCVGSKKSI 60
 Db 13 AALWLLLLLPRTRADEHEHTYQDKKEVVLWMNTVGPYHNROBTYKYFSLPFCVGSKKSI 72
 QY 61 SHVHETLGEALQVELEFSGLDIKFKDDVMPATYCEIDLKXKRDADFVAIKKHYYQMY 120
 Db 73 SHVHETLGEALQVELEFSGLDIKFKDDVMPATYCEIDLKXKRDADFVAIKKHYYQMY 132
 QY 121 IDDLPIWGIAGEADENGEDYYLWTKYKLEIGFNGNRIVDVNLTSKGVKVL---VPMTKIQ 177
 Db 133 IDDLPIWGIAGEADENGEDYYLWTKYKLEIGFNGNRIVDVNLTSKGVKVLGSYYNPDVI 192
 QY 178 MSYSVKWKKSDVPEDFDKYLDPSFQHRHWFSPNSFMVIFLVGLVSMILMTLEK 237
 Db 193 FS---KMEKSDVPEDFDNIL-IVLFSHRHWFSPNSFMVIFLVGLVSMILMTLEK 248
 QY 238 DYARYSKEEMDDMDRDLGDEYGMQVHGVDFRPSHPLIFSSLISSGCOIFAVSLIVII 297
 Db 249 DYARYSKEEMDDMDRDLGDEYGMQVHGVDFRPSHPLIFSSLISSGCOIFAVSLIVII 308
 QY 298 VAMIEDLYTERGSMSTAIFYAATSPVNGYFGSLYAROGGRWIKOMPIGAFILPAMV 357
 Db 309 VAMIEDLYTERGSMSTAIFYAATSPVNGYFGSLYAROGGRWIKOMPIGAFILPAM- 367
 QY 358 CGTAFFINFATYHASRAIPFGTMVAVCCICPFVILPLNLVETILGRNLSGOPNPPCRV 417
 Db 368 -----GVHCLDHQPH-SHLLP-----CFKSHSFNNGGRLHLHLPFCYSSKSCWY 411
 QY 418 NAVPRPIPE-----KKWFMEPAVIVCLGGLPFGSIFIMYFIFTSFWA 461
 Db 412 NTPKSVRSQAQLSLSCQCCASSYTGKQWVHGAIVIVCLGGLPFGSIFIMYFIFTSFWA 471
 QY 462 KYIYVYGFMMVLVILCIIVTCVTIYCTVFLNNAEDYRWQNTSLSAASTAIYVYMS 520
 Db 472 KYIYVYGFMMVLVILCIIVTCVTIYCTVFLNNAEDYRWQNTSLSAASTAIYVYMS 530

RESULT 4
 US-10-425-115-325471
 ; Sequence 325471, Application US/10425115
 ; Publication No. US20040214272A1
 ; GENERAL INFORMATION:
 ; APPLICANT: La Rosa, Thomas J.
 ; APPLICANT: Kovalic, David K.
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 ; FILE REFERENCE: 38-21(53222)B
 ; CURRENT APPLICATION NUMBER: US/10/425,115
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 369326
 ; SEQ ID NO 325471
 ; LENGTH: 596
 ; TYPE: PRT
 ; ORGANISM: Zea mays
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: MRT4577_598C.1.pap
 US-10-425-115-325471

Query Match 56.5%; Score 1744.5; DB 17; Length 596;
 Best Local Similarity 56.5%; Pred. No. 1.7e-153;
 Matches 324; Conservative 96; Mismatches 150; Indels 3; Gaps 3;

QY 6 LLLLLLPRTRADEHEHTYQDKKEVVLWMNTVGPYHNROBTYKYFSLPFCVGSKKSI SHYHE 65
 Db 25 LAALLALASASDHKYYKTEEPVKLWNVKVGPNPQETNYISLFPQCPSEN-THKWG 83
 QY 66 TLGEALQVELEFSGLDIKFKDDVMPATYCEIDLKXKRDADFVAIKKHYYQMYIDDL 125
 Db 84 GLGEVLGNELIDSLKFKLKNVEKGFICTLELDAKKVQGFADAISSYWFEEFIDDL 143
 QY 126 IWGIAGEADENGED-YYLWTKYKLEIGFNGNRIVDVNLTSKGVKVLVNTKIQMSYSVKW 184

Db 144 LMFGVESDKNSENKHLYDTHKNILVKVNDRIIHNLTQESPKLLEDGKLEMTYSVKM 203
 QY 185 KKSVDYKFEEDRDKYLDPSFQHRHWFSPNSFMVIFLVGLVSMILMRTLRKDYARYSK 244
 Db 204 VATDVSFARRPEVYLDYPPFEHQHWFSPNSFMVIFLVGLVSMILMRTLRNDYAKYAR 263
 QY 245 E-BEMDDMDRDLGDEYGMQVHGVDFRPSHPLIFSSLISSGCOIFAVSLIVIAMIED 303
 Db 264 EDDDLLESLEVDNBEESGWLKLVHGVDFRPSHPLIFSSLISSGCOIFAVSLIVIAMIED 323
 QY 304 LYTERGSMSTAIFYAATSPVNGYFGSLYAROGGRWIKOMPIGAFILPAMVCGTAFF 363
 Db 324 LYIGRGALITTFIVCYALTSIFSGVSGLYSRSGKWKAMVLTASLFPFLCFSIGFM 383
 QY 364 INFATYHASRAIPFGTMVAVCCICPFVILPLNLVETILGRNLSGOPNPPCRVNAVPRP 423
 Db 384 LNTIAIFYRSLAAIPFGTMVAVCCICPFVILPLNLVETILGRNLSGOPNPPCRVNAVPRP 443
 QY 424 IPEKKWFMEPAVIVCLGGLPFGSIFIMYFIFTSFWAAYKIYVYGFMMVLVILCIIVT 483
 Db 444 IPEKKWYITPVSIVSLMGGLLPFGSIFIMYFIFTSFWAAYKIYVYGFMMVLVILCIIVT 503
 QY 484 CVTIYCTVFLNNAEDYRWQNTSLSAASTAIYVYMSFYFFTKMYGLFQTSFYFGM 543
 Db 504 CVTIYCTVFLNNAEDYRWQNTSLSAASTAIYVYMSFYFFTKMYGLFQTSFYFGM 563
 QY 544 AVFSTALGIMCAIGMGTSAFVRKIYTNVKID 576
 Db 564 LMFCILGILGALGILGTLFVRRIYRNKCD 596

RESULT 5
 US-10-437-963-141888
 ; Sequence 141888, Application US/10437963
 ; Publication No. US20040123343A1
 ; GENERAL INFORMATION:
 ; APPLICANT: La Rosa, Thomas J.
 ; APPLICANT: Kovalic, David K.
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Cao, Yongwei
 ; APPLICANT: Wu, Wei
 ; APPLICANT: Boukharov, Andrey A.
 ; APPLICANT: Barbazuk, Brad
 ; APPLICANT: Li, Ping
 ; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
 ; FILE REFERENCE: 38-21(53221)B
 ; CURRENT APPLICATION NUMBER: US/10/437,963
 ; CURRENT FILING DATE: 2003-05-14
 ; NUMBER OF SEQ ID NOS: 204966
 ; SEQ ID NO 141888
 ; LENGTH: 617
 ; TYPE: PRT
 ; ORGANISM: Oryza sativa
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: PAT_MRT4530_42949C.1.pap
 US-10-437-963-141888

Query Match 56.5%; Score 1744; DB 16; Length 617;
 Best Local Similarity 53.9%; Pred. No. 2e-153;
 Matches 326; Conservative 99; Mismatches 150; Indels 30; Gaps 4;

QY 1 AALWLLLLLPRTRADEHEHTYQDKKEVVLWMNTVGPYHNROBTYKYFSLPFCVGSKKSI 60
 Db 14 AAVLLVVFVLAALAAASDSHKYQSEKVMWLVNKGPNPQETNYISLFPCHPSNRPV 73
 QY 61 SHVHETLGEALQVELEFSGLDIKFKDDVMPATYCEIDLKXKRDADFVAIKKHYYQMY 120
 Db 74 -HKWGLGVGNELIDSLKFKLKNVEKGFICTLELDAKKVQGFADAISSYWFEEF 132
 QY 121 IDDLPIWGIAGEADENGED-YYLWTKYKLEIGFNGNRIVDVNLTSKGVKVLVNTKIQMS 179

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133 IDDLPLWGVGBADRSNKNYFLFTHKNIVITRYNGNQI IHVNUYLOSQSPKULIDAGKALMT 192
180 YSVKWKSDVKPEDRFDKYLDPSFPQHRHWFISFNSFMVVI FLAVGLVSMILMRTLKDY 239
193 YSVKWEPTNVTFAHRFDVYLDYPPFEHQIHWFSIFNSFMVVI FLTGLVSMILMRTLRLNDY 252
240 ARYSK-EEREMDDMDRLGDGYKWKQVHGDFPRPSSHPLIFSSLLIGSGCQIFAVSLIVITV 298
253 AYARDDDDLETLERDVEESGWKLHVGDFRPPRSLLALSALVGGGTQLSAILLVLIL 312
299 AMEDLYTERGSMLSAIFVYAATSPVNGVFGGSLYARQGRWIKOMFIGAFIPAMVC 358
313 AIIGMLYIGRAIVTTFIVCVALTFSFISGYVSGALYSRHGGKNWIKAMIMTASLFPFMC 372
359 GTAFFINFATYYHASRAIPGTMVAVCCICFFVILPLNLVAGTILGRNLSGOPNPPCVN 418
373 GIGLVNTIAIFYRSLAIPGTMVVVFIWAFISFPFALLGTVGGRNWSGAPNPPCRVK 432
419 AVPRPIPKKMFMEPAVICLGGILPFGSFIEMYFIFTSFNAYKIYYVYGFMMLVLVL 478
433 TTPRPIPKKMYLTBSVIALMGGLLPFGSFIEMYFVFTSFNKNYKYVYVYGFMMLVFLIL 492
479 CTVTVCTVITCTYFLNLNAEDYRWQWTSFLSAASATAIYVMYSVFYVYFETKXVGLFQTSF 538
493 IIVTICVTIVGVYFLNLNAENYHWQWTSFFSAASTAVIVYLYSVYYYHVHVKXSGFFQTSF 552
539 YFGYMAVFSTALGIMC-----GAIGYMGTSAPVVKIYT 571
553 YFGYTLMPFCGLGLTLCGKLFYTGSMLKPKNLMVSTDGTSNFGPGAVGYLGSTLFFVRRIYR 612
572 NVKID 576
613 NIKCD 617

RESULT 6
US-10-767-701-44284
; Sequence 44284, Application US/10767701
; Publication No. US20040172684X1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhouc, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 44284
; LENGTH: 594
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(594)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C12526_1.pep
US-10-767-701-44284

```

QY	129	IVGEADENGED-YILWTYKKLETFNGNRIYDVNLISRGKVLVFNKTIONSYSVWKKS	187
DB	145	FVGETDKNSKNHLYTHKMLVXYINDNRILHYNLHQESPFLLEDGKLEMTYSVKWAT	204
QY	188	DVKFEDRDKYLDSPFQOIRHWFSPNSPMWVIFLVGLVSMILMRTLKRDYARYSKS-E	246
DB	205	DVSAARPEVLYDPFHEHQHWFSPNSPMWVIFLTGLVSMILMRTLREDYAKYAREDD	264
QY	247	ENDDMDRDLGDEYQWKQVHGDFRPPSSHPLIFPSLIGSGCQIFAVSLIIVIVAMIEDLYT	306
DB	265	DLESLESDVNEESGKVLVHGDFRPPRSXVFLSALVGIGTQLAALSRLVILVIALVGLMYI	324
QY	307	ERGSMLSTAIFVYAATSPVNGYGGSLYAPQGGRRMKOMETGAFILPAMVCGTGAFFINF	366
DB	325	GRGAIITFIVCYALTSEFISGYVSGGLYSRNGRWIKMWILTASLFPFLCFSGIFALNT	384
QY	367	IAIYTHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSCQPNFPCRVNAVPRPIPE	426
DB	385	IAIFYRSLAAIPFGTMVMEVLAFTSFPLVLLGTUVGRNWSGAPNPNCRVKTIPIRPIPE	444
QY	427	KWMPERAVIVCLGILPPGSIETIEMVFTTSWAKIYYVYGFMMVLVILICIVTVCVT	486
DB	445	AKWYLTSPVLSLGMGLLPPGSIETIEMVFTSPWNYKYVYVYGFMLLVFVILLIVTICVT	504
QY	487	IVCTYFLLNAEDYRWQWTSFLSAASTAIYVMYSFYYPFKTKMYGLFOTSFYFGYMAVF	546
DB	505	IVGYFLLNAENHYHWQWTSFSSAASATALYVLYSIYYHVHVKTKMSGFTQTSFYFGYTLMP	564
QY	547	STALGIMCGAIGMGTGAFAVRKIYTVNKID	576
DB	565	CLGLGILCGAIGLGTSLFVRRIRYRNKCD	594
RESULT 7			
US-10-425-115-325582			
/ Sequence 325582, Application US/10425115			
/ Publication No. US20040214272A1			
/ GENERAL INFORMATION:			
/ APPLICANT: La Rosa, Thomas J.			
/ APPLICANT: Kovalic, David K.			
/ APPLICANT: Zhou, Yihua			
/ APPLICANT: Cao, Jiongwei			
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With			
/ TITLE OF INVENTION: Plants			
/ FILE REFERENCE: 38-21(53222)B			
/ CURRENT APPLICATION NUMBER: US/10/425,115			
/ CURRENT FILING DATE: 2003-04-28			
/ NUMBER OF SEQ ID NOS: 369326			
/ SEQ ID NO 325582			
/ LENGTH: 595			
/ TYPE: PRT			
/ ORGANISM: Zea mays			
/ FEATURE:			
/ NAME/KEY: unsure			
/ LOCATION: (1)..(595)			
/ OTHER INFORMATION: unsure at all Xaa locations			
/ FEATURE:			
/ OTHER INFORMATION: Clone ID: MRT4577.599C.1.pep			
US-10-425-115-325582			

	Query Match	56.2%	Score 1736;	DB 17;	Length 595;
	Best Local Similarity	56.4%;	Pred. No. 1.1e-152;		
	Matches 324;	Conservative	95;	Mismatches 151;	Indels 4; Gaps 4;
QY	6	LLLLLPTRADEHHYQKEEVLLWMTVGYHNRQETKYFSLPFCVGSKKISISHVHE	65		
		: : :			
Db	23	LAALLALASASESDHKYTEEPVKLWNKVGPYNPQETNYNYSLPFCQSPNP-THKWG	81		
		: : :			
QY	66	TLGELAQGVLESGLDIKFKDDVMPEATCYEIDLQEKEDAFVYAIKHNVYQMYIDLP	125		
		: : :			
Db	82	GLGEVLGGNELDSQIEIKFLKNVEKGFICTLELDAKKVQPADAIESYWFEFIDLP	141		
		: : :			
OY	126	IWGTVGEADENGED-VYLNTYTKLEIGFGNGRIVDVNLTTSEGVKLAVENTIQMSYSVKW	184		

```
Db 142 LMGFVGETDKNSENKRYLYTHKNILVKYNDNRRIHVNLTQESPTLLEBDGKKLEMTYSVKW 201
Qy 185 KKSVDKE-EDRFDKYLDPSPFQHRHWFHSFNFSFMMVIFLVGLVSMILMRTLRKDYARYS 243
Db 202 VATDVSFARXRFVYLDYPPFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRNDYAKYA 261
Qy 244 KB-BEMDDMRDLGDYGVKQVHGDFVRPSHPLIFSSLGSCQIPAVSLIIVIAMIE 302
Db 262 REDDDLESLESDVNEESGKLVHGDFVRPSRSLAFLSAVVGIGTQLAALLILLVILAIVG 321
Qy 303 DLYTERGSMSTALFVYAATSPVNGYFGGSIYARQGGRRWIKOMFICAFILIPAMVCGTAF 362
Db 322 MLYIGRGAITTFIVCYALTSPISGYVSGGLYSRNGGKWKAMILTASLPFLCPSIGF 381
Qy 363 PINFIATYYHASRAIPFGTVMVAVCCICFFVILPLNLVGTILGRNLSGQPNPFCRVNAVPR 422
Db 382 ALNTIAIFYRSLAIPFGTVMVAVFISFPLVLLGTVVGRNWSGAPNPNCRVKTIPT 441
Qy 423 PIPEKKWFMEPAVIVCLGGILPGCSIEMFYFTSWAYKIYVYVGFMMVLVILCIYT 481
Db 442 PIPEKKWYLTSPVLSLGGGLPPGSIEMFYFTSWAYKIYVYVGFMMVLVILCIYT 501
Qy 483 VCVTIIVCTYLLNAEDYRWQWTSFSLAATAIYVYMSFYFFPKTKMYGLFOTSFYFGY 542
Db 502 ICVTIIVGTYLLNAENYHWQWTSFSLAATAIYVYLSIYYHVKTQMSGFFOTSFYFGY 561
Qy 543 MAVESTALGIMCGAIGYMGTSAFVRKIYTNVKID 576
Db 562 TLMFCLGLGILCGAIGYLGSTLFVRRIYRNKCD 595
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RESULT 8

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US-10-437-963-116913
; Sequence 116913, Application US/10437963
; Publication No. US2004012343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Brad
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 116913
; LENGTH: 596
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_2036C.1.pap
US-10-437-963-116913
```

```
Query Match 55.6%; Score 1716; DB 16; Length 596;
Best Local Similarity 56.5%; Pred. No. 7.9e-151;
Matches 325; Conservative 91; Mismatches 153; Indels 6; Gaps 5;
```

```
Qy 5 LLLLLPR-TRADEHEHTYQDKEEVLVMMNTVGPYHNROETKYFSLPFCVSGSKGISHY 63
Db 25 LLALATRPASASDSDHKYKEEVPVKLWNVKVPYNNPQETNYHSLPFCQPSNP-AHK 83
Qy 64 HETLGEALQVLEFSGLDIKFKDDVMPATYCEIDLDKEKDAFVVAIKHYQWYIDD 123
Db 84 WGGGLVGLGNELSDSIDIKFLRNEERGSICTLELDSKKVQVQSDAIDNSYWFEFMDD 143
Qy 124 LPWIGVGEADENGED-YYLWTYKKLEIGFNGNRIVDNLTSGKVKLVNTKIQMSYSV 182
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Db 144 L--WGFVGETDKNSENKRYLYTHKSIILVKYNDNRRIHVNLTQESPKLLEAGKKLDMTYSV 201
Qy 183 KWKSDVDFEDFDKYLDPSPFQHRHWFHSFNFSFMMVIFLVGLVSMILMRTLRKDYARY 242
Db 202 KWLQTDVTFAREFEVYLDYPPFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRNDYAKY 261
Qy 243 SKE-BEMDDMRDLGDYGVKQVHGDFVRPSHPLIFSSLGSCQIPAVSLIIVIAMIE 301
Db 262 ABEDDDLESLESDVNEESGKLVHGDFVRPSRSLAFLSAVVGIGTQLAALLILLVILAIV 321
Qy 302 EOLYTERGSMSTALFVYAATSPVNGYFGGSIYARQGGRRWIKOMFICAFILIPAMVCGTA 361
Db 322 GMLYIGRGAITTFIVCYALTSPISGYVSGGLYSRNGGKWKAMILTASLPFLCPSIGF 381
Qy 362 PINFIATYYHASRAIPFGTVMVAVCCICFFVILPLNLVGTILGRNLSGQPNPFCRVNAV 421
Db 382 FVLNTIAIFYRSLAIPFGTVMVAVFISFPLVLLGTVVGRNWSGAPNPNCRVKTIPT 441
Qy 422 RIPEKKWFMEPAVIVCLGGILPGCSIEMFYFTSWAYKIYVYVGFMMVLVILCIY 481
Db 442 RIPEKKWYLTSPVLSLGGGLPPGSIEMFYFTSWAYKIYVYVGFMMVLVILCIY 501
Qy 482 TVCVTIIVCTYLLNAEDYRWQWTSFSLAATAIYVYMSFYFFPKTKMYGLFOTSFYFG 541
Db 502 TICVTIIVGTYLLNAENYHWQWTSFSLAATAIYVYLSIYYHVKTQMSGFFOTSFYFG 561
Qy 542 YNAVESTALGIMCGAIGYMGTSAFVRKIYTNVKID 576
Db 562 YTMFCLGLGILCGAIGYLGSTLFVRRIYRNKCD 596
```

RESULT 9

```
US-10-739-930-9909
; Sequence 9909, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9909
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAE-23APR03-C0111_1.p
US-10-739-930-9909
```

```
Query Match 55.4%; Score 1712; DB 17; Length 595;
Best Local Similarity 55.0%; Pred. No. 1.9e-150;
Matches 321; Conservative 96; Mismatches 155; Indels 12; Gaps 4;
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```
Qy 4 WLLLLLP-----RTRADEHEHTYQDKEEVLVMMNTVGPYHNROETKYFSLPFCV 54
Db 13 FVLLLSLTAVLAFASPLRASASESDHKYKAGDSVKLVNVKVPYNNPQETNYHSLPFCQ 72
Qy 55 GSKKSIHVHETLGEALQVLEFSGLDIKFKDDVMPATYCEIDLDKEKDAFVVAIKHN 114
Db 73 PSENP-GHKWGLGELVGNELIDSQLDIKFLRNVVERGSICTLELDPKTKTQFADAIESS 131
Qy 115 WYQWYIIDLPLTPIGVGEADENGED-YYLWTYKKLEIGFNGNRIVDNLTSGKVKLVN 173
Db 132 YWFEFFIDLLPLWFGVGETDKNSENKRYLYTHKNILVKNYNDNRRIHVNLTQESPKL 191
Qy 174 TKIQMSYVKVKKSVYKEDFPDKYLDSPFQHRHWFHSFNFSFMMVIFLVGLVSMILMR 233
Db 192 KNLDMTYSKAKWPTDVSFARRFEVYLDYPPFEHQIHWFSIFNSFMMVIFLTGLVSMILMR 251
Qy 234 TURKDYARYSK-EEEMDDMRDLGDYGVKQVHGDFVRPSHPLIFSSLGSCQIPAVS 292
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Db      252  TLRNDYAKYARDDDLESRLDVNEESGKVLHGDVFRPPRSULTLSALVGIGTQLAALI 311
QY      293  LVIIVAMIEDLYTERGSMSTAFVVAANTSVPNGYFGGSLYARQGGRRWKQMFAGFL 352
Db      312  LVIIVLAIVGMLYVGRGAIITTFIVCVALTSTFISGYVAGLSYRNGGKWKAMILTASL 371
QY      353  IPAMVCGTAFFINFAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGQPN 412
Db      372  FPLHLFAIGFALNTAIFYGSLAALPFGTMVAVFVLAFAISFPLVLLGTVVGWNSGAPN 431
QY      413  PFCRNVAVRPIPKKPMFPAVIVCLGGILPFGSIFEMFYFTSFWAYKIYVYGFNM 472
Db      432  NPCRVKTIPIPKKPMFPAVIVCLGGILPFGSIFEMFYFTSFWAYKIYVYGFNM 491
QY      473  LVLVILCVTVCTVICTYFLNNAEDYRWOWTSFSLAASAIYVYMSFYFFPKTMYG 532
Db      492  LVFVILLIIVTICVTIVGTYFLNNAENYHMQWTSFSLAASAIYVYLSIYYHVKIMSG 551
QY      533  LFQTSFYGVNAVSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
Db      552  FFQTSFYGVNAVSTALGIMCGAIGYMGTSFAVRKIYTNVKID 595

RESULT 10
US-10-425-114-66140
; Sequence 66140, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425-114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 66140
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB4573-008-E4_FLI.pbp
US-10-425-114-66140

Query Match      53.0%; Score 1636.5; DB 15; Length 576;
Best Local Similarity 53.1%; Pred. No. 2e-143;
Matches 307; Conservative 92; Mismatches 142; Indels 37; Gaps 3;

QY      1  AALMILLLLPRTRADEHEHTYQDKEEVVLMWNTVGPYHNRQETKYFSLPFCVGSKSI 60
Db      34  AAILIAVAHSPLAYASEAHHKYKTEEPVKLWNVK----- 68
QY      61  SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKXKRDADFVYAIKNHYWQY 120
Db      69  -----LGGNELIDSDIDIKFKVDKGAICTIELDVQVQFANAIENSWFELF 118
QY      121  IDDLPIWIGVGEADNGE-DYYLWTKKLEIGFNGNRIVDNLTSBGKVLVNTKIQMS 179
Db      119  IDDLPLMGFVGETDKNNEKKHYLTHKNIVVKNNGRIIHNLTQESPKLLEAGKLDMT 178
QY      180  YSVKWKSDVKFEFDKLDPSFQHRHWFSPNSFMVIFLVGLVSMILMRTLRKDY 239
Db      179  YSVKRWQTNVAFARFEVLDYPPFEHQIHWFSIFNSFMVIFLTVGLVSMILMRTLRNDY 238
QY      240  ARYSKE-BEMDDMDRLDGEYGWKQVHGDVFRPPSHPLIFSSLGSCQIFAVSLIIV 298
Db      239  AKYAREDDLESRLDVNEESGKVLHGDVFRPPRGQVFLSALVGIGTQLAAILIVL 298
QY      299  AMIEDLYTERGSMSTAFVVAANTSVPNGYFGGSLYARQGGRRWKQMFAGFLPAMVC 358

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Db      299  AIIVMLYVGRGAIITTFIVCVALTSTFISGYVSGGYSRNGGKWKAMILTASLPFLCF 358
QY      359  GTAFFINFAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGQPNPCCRNV 418
Db      359  STGLLNTAIFRSLAALPFGTMVAVFVLAFAISFPLVLLGTVVGWNSGAPNPCVX 418
QY      419  AVPRPIPKKPMFPAVIVCLGGILPFGSIFEMFYFTSFWAYKIYVYGFNMVLVIL 478
Db      419  TPIRPIPKKWLTPSVISLGMGLLPFGSIFEMFYFTSFWAYKIYVYGFNMVLVIL 478
QY      479  CVTVCVTIVCTYFLNNAEDYRWOWTSFSLAASAIYVYMSFYFFPKTMYGLFQTSF 538
Db      479  IIVTVCVTIVGTYFLNNAENYHMQWTSFSLAASAIYVYLSIYYHVKIMSGFFQTSF 538
QY      539  YFGYNAVSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
Db      539  YFGYTLMLFCLGILCGAVGLSGTLFVRRIRYRNKICD 576

RESULT 11
US-10-425-115-286624
; Sequence 286624, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 286624
; LENGTH: 552
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_24498C.1.pbp
US-10-425-115-286624

Query Match      52.9%; Score 1635.5; DB 17; Length 552;
Best Local Similarity 52.9%; Pred. No. 2.3e-143;
Matches 306; Conservative 93; Mismatches 144; Indels 37; Gaps 3;

QY      1  AALMILLLLPRTRADEHEHTYQDKEEVVLMWNTVGPYHNRQETKYFSLPFCVGSKSI 60
Db      10  AAILIAVAHSPLAYASEAHHKYKTEEPVKLWNVK----- 44
QY      61  SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKXKRDADFVYAIKNHYWQY 120
Db      45  -----LGGNELIDSDIDIKFKVDKGAICTIELDVQVQFANAIENSWFELF 94
QY      121  IDDLPIWIGVGEADNGE-DYYLWTKKLEIGFNGNRIVDNLTSBGKVLVNTKIQMS 179
Db      95  IDDLPLMGFVGETDKNNEKKHYLTHKNIVVKNNGRIIHNLTQESPKLLEAGKLDMT 154
QY      180  YSVKWKSDVKFEFDKLDPSFQHRHWFSPNSFMVIFLVGLVSMILMRTLRKDY 239
Db      155  YSVKRWQTNVAFARFEVLDYPPFEHQIHWFSIFNSFMVIFLTVGLVSMILMRTLRNDY 214
QY      240  ARYSKE-BEMDDMDRLDGEYGWKQVHGDVFRPPSHPLIFSSLGSCQIFAVSLIIV 298
Db      215  AKYAREDDLESRLDVNEESGKVLHGDVFRPPRGQVFLSALVGIGTQLAAILIVL 274
QY      299  AMIEDLYTERGSMSTAFVVAANTSVPNGYFGGSLYARQGGRRWKQMFAGFLPAMVC 358
Db      275  AIIVMLYVGRGAIITTFIVCVALTSTFISGYVSGGYSRNGGKWKAMILTASLPFLCF 334
QY      359  GTAFFINFAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGQPNPCCRNV 418

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335 SIGLLNTIAFYSLAAIPFGTMVMPFILWAFISFPLVLLGTUVGRNWSGAPNNPCRVK 394
QY 419 AVPRPEKKWFEPATVCLGGILPGSIFEMFYFTSFWAYKIYVYGFMMVLVLIV 478
Db 395 TIPRIPEKKWYLPSPVLSLGGILPGSIFEMFYFTSFWMYKYVYVYGFMLLVFVIL 454
QY 479 CIVTVCVTIVCTYFLLNAEDRWMTSPLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 538
Db 455 IIVTICVTIVCTYFLLNAENYHMQWTSFSAASTALVYLYSIYYHVHKMKSGFFQTSF 514
QY 539 YFGWMAVFPSTALGIMCAGIMGTSASFVRKIYTNVKID 576
Db 515 YFGYTLMPFCLGILCGAVGLGTLFVRRRIYRNKICD 552

RESULT 12
US-10-425-115-206340
; Sequence 206340, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 206340
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)...(500)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MFT4577_119765C.1.pap
US-10-425-115-206340

Query Match 46.3%; Score 1430.5; DB 17; Length 500;
Best Local Similarity 54.9%; Pred. No. 2.6e-124; Indels 7; Gaps 4;
Matches 269; Conservative 88; Mismatches 126; Indels 7; Gaps 4;

QY 6 LLLPLRTRADEHETTYQDKSEVVLWNTVGPYHNROETKYKPSLPCVGSXKSISHYHE 65
Db 14 LLLVPLTAASDSHKYQAAEPVTLWNVKGPYNNPQETNYYSPLPFCHASE---NHVHK 70
QY 66 --TIGEALQGVLEFSGLDIKFKDDVMPATYCEITDLDEKEDAFYAIKHYYQMYIDD 123
Db 71 WGGILGVLGGNELDSQIDIKFGKNVDKATICSLLDLVLKAKQLSDAIENSYWFEFIDD 130
QY 124 LPIWGIAGEADENGED--YIWTYKKEIGFNGNRIVDVNTSEKVKLVNPTKIQMSYV 182
Db 131 LPLNGFVGEARDNNKXYFLFTHKNIVIRYNGNQIHHVLTQESPKLIDVYNKALDMYTV 190
QY 183 KWKSDVKFEDRPDKYLDPSFQHRHWFSTFNSFMVYFVLGLVSMILMRTLKDYARY 242
Db 191 KWEPTNITFAHRFDVLDYDPFPEHQIHWFSIFNSFMVYFELTGLVSMILMRTLNDYAKY 250
QY 243 SK-BEEMDDDRDLGDEVGKQVHGDFRPSHPLIFSSLLIGSCQIPAVSLIIVAMI 301
Db 251 ARDDDDIETLDRDYNESGKLVHGDFRPPCNVLLSALVIGTQAAAILLVILLAI 310
QY 302 EDLYTERGSMSTAIIFYAATSPYNGYFGGSLYARQGRWIKOMFICAFILPAMVCGTA 361
Db 311 GMLYIGRGALVTTTIVCVYALTSFISGVYSGALYSRHHGKNWKAMAMTASLFFPMCFGIG 370
QY 362 PFIFILAIYHASAIPFGTMVAVCCICFFVILPLNLVHILGNLSQPNFCRVNAP 421
Db 371 LVNLNTIAIFYGLAAIPFGTMVAVFILWAFISFPLVLLGTUVGRNWSGAPNNPCRVK 430

QY 422 RPIPEKKWFEPATVCLGGILPGSIFEMFYFTSFWAYKIYVYGFMMVLVLIV 481
Db 431 RPIPEKKWYLPSPVLSLGGILPGSIFEMFYFTSFWMYKYVYVYGFMLLVFVIL 490
QY 482 TVCVTIVCTY 491
Db 491 XICVTIVGTY 500

RESULT 13
US-10-437-963-103141
; Sequence 103141, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 103141
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)...(424)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_1005C.1.pap
US-10-437-963-103141

Query Match 42.5%; Score 1313; DB 16; Length 424;
Best Local Similarity 57.7%; Pred. No. 1.9e-113;
Matches 240; Conservative 69; Mismatches 105; Indels 2; Gaps 2;

QY 162 LTSEGVKVLVPNTKIOMSYSVKWKSDVKFEDRPDKYLDPSFQHRHWFSTFNSFMV 221
Db 10 ISQKSPTHLEAGKLDMTYSVKVQTNVAFARFRFVLDYDPFPEHQIHWFSIFNSFMV 69
QY 222 FLVGLVSMILMRTLKDYARYSKE-BEMDDDRDLGDEVGKQVHGDFRPSHPLIFSS 280
Db 70 FUTGLVSMILMRTLNDYAKYAREDDDLSELDSESGKLVHGDFRPPRSJVLUSA 129
QY 281 LIGSCQIPAVSLIIVAMIEDLYTERGSMSTAIIFYAATSPYNGYFGGSLYARQGR 340
Db 130 FVGIGYQLAALLVILVLAIVGLVYVGRGAIITTFIVCVYALTSFISGVYSGGLYSRNGK 189
QY 341 RMKQMFICAFILPAMVCGTAFFINFILAIYHASAIPFGTMVAVCCICFFVILPLNLV 400
Db 190 NMKSMILTASLFFPLCFISGLVNLNTIAIFYRSLAAIPFGTMVYFVLWAFISFPLVLLG 249
QY 401 TILGNLSQPNFCRVNAPRPIPEKKWFEPATVCLGGILPGSIFEMFYFTSF 460
Db 250 TVVGRNWSGAPNNPCRVKTIPEPIPEKKWYLPSPVLSLGGILPGSIFEMFYFTSF 309
QY 461 AKIYVYVYGFMMVLVLIVCTIVCTYFLLNAEDRWMTSPLSAASTAIYVYMY 520
Db 310 NYKVYVYVYGFMLLVFVILVCTIVCTYFLLNAENYHMQWTSFSAASTALVYLYS 369
QY 521 FYYFPEKTKMYGLFQTSFVYGVYMAVFPSTALGIMCAGIMGTSASFVRKIYTNVKID 576
Db 370 IYYHVHKMKSGFFQTSFISFPLVLLGTUVGRNWSGAPNNPCRVK 424

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RESULT 14
US-10-424-599-174369
; Sequence 174369, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 174369
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_WRT3847_128474C.1.pap
US-10-424-599-174369

Query Match      37.3%; Score 1153.5; DB 15; Length 592;
Best Local Similarity 37.8%; Pred. No. 2.2e-98;
Matches 228; Conservative 116; Mismatches 214; Indels 45; Gaps 12;

QY 2 ALWLLLL-----LPRTRADEHEHTYQDKKEEVLWMTVGPYHNROETKYKFSLPFCV-GS 56
DB 7 ALVLAIIISLQGTGHRVSDASHRYKDGDSVPLVANKVGPFPNSETRYFDLPFCVTG 66
QY 57 KKSISHYHETLGEALQGVLEFSGLDIKFDKDDVMPATYCEIDLKDKRDAFVAIKNHV 116
DB 67 BKDKT---EALGEVLNGDLVSAPELSFKKDKSVCKKLTKEQVAFREAVKDY 123
QY 117 QMYIDDLPIWGVGEADENGE-----DYLTWYKYLEIFGNRIVD-----V 160
DB 124 QMYIDDLPIWGVGEADENGE-----DYLTWYKYLEIFGNRIVD-----V 183
QY 161 NLTEGKVKLVNTKIQMSYVKMKSDVKEDRFDKYLDPSPFQH--RIHWFSIENF 218
DB 184 DLTEGKVKLVNTKIQMSYVKMKSDVKEDRFDKYLDPSPFQH--RIHWFSIENF 237
QY 219 MVIFVLGVSMILMRTLKDYARYSKKEEMDDMDRLDGEYQKQVHGVDPSPSSHPLIF 278
DB 238 TVLLLTGFLATILMRVLKNDPMKYAQDEEAD-DQ---EETGWKYIHGDVFRPKKSPF 293
QY 279 SSLTSGGCOIFAVSLIIVIAMIEDLYT-ERGSMLSTAFVYAATSPVNGYFGSGLYARQ 337
DB 294 SAALSGSGQLFTLIFMLALGVFPYPNRGALFTALVVIYALTSGIAGYTATSFYIQL 353
QY 338 GGRWKQKMFICAFILPAMVCGTAP---FINFIAIYHASRAIPFGTMVAVCCICPFI 393
DB 354 EGTNWRNL-----LLTGCLFCGFLPFLMECFNLNTVAIYASATAALPFGTIIVVILWLT 409
QY 394 LPLNLVGTILGRNLSGQNPFCRVNVRPIPEKKWMEPAVIVCLGILIPFGSIFIE 453
DB 410 SPLLVGLGIAGKNSKTEFQAPVRTTKYPREIPLPWRSTIPOMAMAGFLPFSAIYEL 469
QY 454 FIETSFAYKLYVYVGMMLVLVILCIYVCTVITVCTVFLINAEYRWQMTSFLSASTA 513
DB 470 YIFASVWGHRIYIISILFIILLIIVTAFITVLTALYFQLAAEDHEWWRSLCGSGTG 529
QY 514 IYVYMYSPFYFFKTKYGLFQTFYFGYMAVFTALGIMCGAIGMTSAFVKIYTNV 573
DB 530 LFIYCYCLYYIYARDNSGNGMTQSFYFGYMACICVGFYFLMLGVSFGFRASLLFVH 589
QY 574 KID 576
DB 590 KCE 592

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RESULT 15
US-10-425-115-202293
; Sequence 202293, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 202293
; LENGTH: 692
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_116081C.1.pap
US-10-425-115-202293

Query Match      37.0%; Score 1143; DB 17; Length 692;
Best Local Similarity 37.8%; Pred. No. 2.6e-97;
Matches 224; Conservative 116; Mismatches 230; Indels 22; Gaps 9;

QY 1 AALWLLLLLPR---TRADEHEHTYQDKKEEVLWMTVGPYHNROETKYKFSLPFCVGS 57
DB 107 AATLVLLALAAAGVAAAGSDHRYKIREPVLYANKVGPFPNSETRYFDLPFC--SP 164
QY 58 KSISHYHETLGEALQGVLEFSGLDIKFDKDDVMPATYCEIDLKDKRDAFVAIKNHV 117
DB 165 DKVKESEALGEVLNGDLVDAPEYKLDPRDEVESKAVGSKLTTEDEVVKFENAVAKDY 224
QY 118 QMYIDDLPIWGVGEADENGE-----YLTWYKYLEIFGNRIVDNLITSE--GVK 169
DB 225 QMYIDDLPIWGVGEADENGE-----YLTWYKYLEIFGNRIVDNLITSE--GVK 284
QY 170 LVEN--TKIQMSYVKMKSDVKEDRFDKYLDPSPFQH--RIHWFSIENFMMVIFLV 225
DB 285 LTEDKETNVFELYVKWKETPTPEKRMKESYSSSNMPEHLEHVHFSIINSCVTVLLTG 344
QY 226 LVSMILMRTLKDYARYSKKEEMDDMDRLDGEYQKQVHGVDPSPSSHPLIFESLISG 285
DB 345 FLATILMRVLKNDPMKYAQDEEAD-DQ---EESGWKYIHGDVFRPKKSLFSAALGTG 400
QY 286 COIFAVSLIIVIAMIEDLYT-ERGSMLSTAFVYAATSPVNGYFGSGLYARQGGRRWK 344
DB 401 TQLFALTTFILLALGVFPYPNRGALFTALVVIYALTSGIAGYVATSFYSOLEGTNVR 460
QY 345 QMFIGAFILPAMVCGTAPFINFIAIYHASRAIPFGTMVAVCCICFFVILINLVGTIL 404
DB 461 NLLLTGCLFCGFLPFLMECFNLNTVAIYASATAALPFGTICVILWLTVTFLLVGLG 520
QY 405 RNLSGQNPFCRVNVRPIPEKKWMEPAVIVCLGILIPFGSIFIEYFIETSFYAYKI 464
DB 521 KNSKSEFQAPCTTKYPREIPLPWRSTIPOMAMAGFLPFSAIYELIYIFASVWGHRI 580
QY 465 YVYVGMMLVLVILCIYVCTVITVCTVFLINAEYRWQMTSFLSASTAIYVYMYSFY 524
DB 581 YTIYSILFIIVFIILLIIVTAFITVLTALYFQLAAEDHEWWRSLCGSGTGFFYGYCL 640
QY 525 PFKTKMYGLFQPSYFGYMAVFTALGIMCGAIGMTSAFVKIYTNV 576
DB 641 YARDSMGNGMTQSFYFGYMACICVAFYFLMLGVSFGFRASLLFVHRYKSIKCE 692

Search completed: November 17, 2004, 17:35:41
Job time : 110.39 secs

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